

INSTRUCTION MANUAL

for

MODEL 752A DYNAMIC MUTUAL CONDUCTANCE TUBE TESTER

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CHAPTER I - INTRODUCTION

GENERAL DESCRIPTION

The Hickok Model 752A Tube Tester combines the characteristics of accuracy and dependability together with the advantages of portability and simplicity of operation to meet the needs of those technicians who maintain modern electronic equipment. The design specifications of the Model 752A include the very latest tube-testing techniques to provide an accurate evaluation of the performance capabilities of electron-tubes of the receiving and low power transmitting types.

The Model 752A employs the Dynamic Mutual Conductance test method to evaluate electron tubes of the amplifier type. The results obtained from this test method are indicative of the performance capabilities of a tube in actual equipment operation. The dynamic mutual conductance of the tube under test is quantitatively indicated directly in micromhos on the test meter.

The Model 752A employs a controlled emission test to provide a meaningful evaluation of diode tubes of the rectifier and detector types. The instrument also provides a voltage regulator tube test circuit which permits the testing of voltage regulator tubes in accordance with tube manufacturers' handbook operating conditions.

To insure a complete evaluation of the tube under test, the Model 752A provides three basic fringe tests: (1) An interelement short and leakage test is provided as a preliminary check on all electron-tubes. The resistance of interelement leakage paths is measured directly in ohms on the test meter. (2) A gas test is also provided; this test is an integral step in the evaluation of any amplifier type tube. (3) A life test, which determines the efficiency of the cathode, is provided to forecast the future life of the tube under test.

The outstanding feature of the Model 752A is the dual tube test which permits the testing of electron-tubes containing electrically similar sections with one setting of the selector switches. Each section of the tube is independently tested for interelement leakage, performance capability, and gas by simply depressing an additional push button which transfers the tube test conditions from one section of the tube to the other. This feature is particularly useful when testing and selecting tubes for use in balanced circuits.

Many new mechanical design features have been incorporated into this tester to facilitate the rapid selection of the proper test conditions for the tube under test. The panel layout is designed to provide a direct correlation between the order in which the roll chart data is presented and the order in which the tube-test selector switches are arranged. This arrangement not only reduces the time needed for testing a tube, but also reduces the possibility of operator-error in setting up the specific tube test conditions. To further reduce the time normally required in testing tubes and to aid in the interpretation of test results, the test meter scales have been simplified. Mutual conductance values are indicated on one basic 0-1500 micromho scale. The Gm of the tube under test can be determined by multi-

plying the indicated meter reading by the multiplier selector switch setting. Separate meter scales are provided for the interelement leakage and voltage regulator test circuits.

The Model 752A also makes available on its main panel ten of the most commonly used tube sockets. The various tube parameters are applied to the pins of these tube sockets through anti-oscillation wiring by a system of rotary selector switches. These selector switches are numbered in accordance with the EIA system of tube pin designation, and are wired in such a way that they are electrically interlocked to prevent the application of two different test potentials to the same tube pin. This not only prevents damage to the tube under test, but also prevents damage to the tester.

The following special tube adapters are available for use with the Model 752A:

NOMENCLATURE	HICKOK CODE NO.
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Adapter: Cathode ray tube	1050-28
Adapter: 2C39C tube	1050-50
Adapter: Long-lead submin. tube	1050-89
Adapter: 829B tube	1050-107
Adapter: 4X150A/4X250B tube	1050-109
Adapter: 991 tube	1050-118
Adapter: 2C36 tube	1050-119
Adapter: 2-01C tube	1050-120
Adapter: 6263, 6173, 5675 pencil tubes	1050-121

The built-in roll chart provides the test data for all the tubes normally encountered in the servicing of modern electronic equipment. The roll chart is replaceable, and revised roll charts can be ordered direct from the factory. (See page 3).

Detailed information on the physical and electrical properties of the Model 752A can be found in the Specifications Section.

To ensure safe, accurate and efficient service from your tube tester, Chapter II (Operating Instructions), should be carefully read and understood.

MODIFICATION TO 230-VOLT OPERATION

The Model 752A Tube Testers, beginning with tube testers bearing serial numbers prefixed with 324 and above, are designed to operate on either 115 volts or 230 volts. They are shipped from the factory to operate on 115 volts. If 230-volt operation is desired, it is necessary to change the wiring of the power transformer from a parallel hookup to a series hookup. For 115-volt operation, no modification is necessary. For parallel and series hookups, see the schematic wiring diagram in the rear of this manual.

For modification of the Model 752A Tube Tester from 115 volts to 230 volts, proceed as follows:

a. POWER TRANSFORMER

1. Disconnect the black wire which is connected to the lug marked (w), and disconnect the white-black wire which is connected to the lug marked (x). Both located on transformer.
2. Splice together and solder the two above wires. Insulate connection with electrical insulating tape.
3. Do not disturb other wires which are connected to the lugs marked (w) and (x). Inspect (w) and (x) for good electrical connection.

b. LINE FUSE

1. Replace the No. 81 fuse lamp with a No. 63 lamp.

c. CALIBRATION

1. Plug tube tester into a 230-volt a. c. power source and turn on.
2. Rotate LINE ADJUST until the needle on the meter is in the area marked LINE TEST.
3. No further calibration is necessary.

- d. For modification from 230 volts to 115 volts, reverse the above procedure.

SPECIFICATIONS

I POWER REQUIREMENTS:

- A. Voltage: 115 volts or 230 volts.
B. Frequency: 50 - 60 Hz.
C. Power Consumption: 40 watts, minimum.
70 watts, maximum.
D. Protection: Line fuse (#81 lamp), for 115-volt operation.
Line fuse (#63 lamp), for 230-volt operation.
Bias fuse (#49 lamp).

II TUBE-TEST POTENTIALS:

- A. Plate Voltages: 75 and 150 volts d. c.
B. Screen Voltages: 56 and 130 volts d. c.
C. Fixed Bias Voltages: 0 to -40 volts d. c., adjustable.
D. Extra Negative Voltage: -40 volts d. c.
E. Provisions for Self-bias Tests.
F. Signal Voltages: 0.25, 0.5, 1.25, 2.5 volts a. c., 60 cycles.
G. Diode Test Voltage: 20 volts RMS.
H. V. R. Tube Test Voltages: 0-200 volts d. c., adjustable.
I. 0Z4 Test Voltage: 287 volts RMS.
J. Filament Voltages: 0-117 volts a. c. (18 steps)

III TEST METER:

- A. Mutual Conductance Ranges: 0-1500/3000/6000/15,000/30,000 μ mhos (Readings obtained from basic 0-1500 Gm scale and multiplier switch.)
B. V. R. Test Scales: 0-200 volts d. c.
0-100 milliamperes.
C. Leakage Scale: Calibrated in ohms.

IV TUBE COMPLEMENT:

<u>Quantity</u>	<u>Type</u>
1 ea.	83
1 ea.	5Y3GT/G

V PHYSICAL SPECIFICATIONS:

- A. Height: 7-1/2"
B. Width: 18-3/8"
C. Depth: 16-3/4"
D. Weight: 25 lbs.
E. Case: Portable, black leatherette covered.

ROLL CHART SUBSCRIPTION SERVICE: Roll charts for Hickok Tube Testers are up-dated twice a year. By subscribing to the roll chart service, you will automatically receive each new chart as it comes from the printer. For details on this subscription plan, contact the Parts Department, Hickok Electrical Instrument Company, 10514 Dupont Avenue, Cleveland, Ohio 44108.

TUBE DATA SUPPLEMENTS: Also available twice a year are up-to-date data on Foreign Tube Types and Obsolete Tube Types. Each of these manuals may be purchased on a per-issue basis from the Parts Department.

Don't allow your tester to become obsolete due to outdated information. Take advantage of these services, now.

CHAPTER II - OPERATING INSTRUCTIONS

SECTION I: PANEL COMPONENTS - IDENTIFICATION AND FUNCTION.

A. THE CONTROLS:

1. The POWER ON-OFF switch controls power input to Model 752A.
 2. The LINE ADJUST controls the input voltage to the power transformer for proper standardization of test potentials applied to the tube under test.
 3. The FILAMENT VOLTAGE switch provides an 18-step selection of filament or heater voltages from 0.6 volts through 117 volts a. c. An OFF position is also provided for use when testing V. R. tubes and cold cathode rectifiers.
 4. Selector switches, FILAMENT (2), GRID A, GRID B, PLATE, SCREEN, CATHODE, and SUPPRESSOR, provide proper switching of the internal circuits to apply the correct test potentials to the various pins of the tube under test.
 5. The BIAS control is used to adjust the bias voltage applied to the tube under test.
 6. The SHUNT control is a dual potentiometer used to adjust the sensitivity of the meter circuit to the proper level required for testing rectifier and detector type diodes.
 7. The MULTIPLIER switch is used to select the proper meter range for the particular type of tube under test. For mutual conductance tests, the MULTIPLIER switch is set to the X1, X2, X4, X10 or X20 position. This extends the full scale range of the basic 0-1500 micromho scale to 3000, 6000, 15,000 and 30,000 micromhos, respectively. For controlled emission tests on rectifier and detector type diodes, the MULTIPLIER switch is set to the SH or shunt position. This connects the SHUNT potentiometer into the circuit, and this control should then be set to the value indicated on the roll chart. For voltage regulator tests, the MULTIPLIER switch is set to the V. R. position. In the V. R. position, the test meter becomes a 0-200 VDC voltmeter, and when S-9 is depressed the test meter becomes a 0-100 milliammeter.
 8. The LEAKAGE switch, when rotated through positions 1, 2, 3, 4, 5 and 6, connects the various elements of the tube under test across a test voltage. In certain positions of the LEAKAGE switch, tubes having interelement leakage paths will complete the test circuit and cause the pointer of the test meter to move up scale.
 9. The ten push-button switches located in the lower right-hand portion of the panel actuate the proper test circuit, as indicated on the roll chart. Their designation and function is as follows:
 - a. S1 - DIODE: used when testing low-power diodes, such as the 6H6.
 - b. S2 - 0Z4: used when testing cold cathode rectifiers, such as the 0Z4.
 - c. S3 - RECT: used when testing rectifiers, such as the 5Y3, 6X4, etc.
 - d. S4 - LOW PLT: used when testing amplifier type tubes, such as the 1R5 and 1S4.
 - e. S5 - RED GM: push button for mutual conductance test on amplifier tubes only. NEVER USE THIS BUTTON WHEN TESTING RECTIFIER TUBES.
 - f. S6 - GAS #1, and S7 - GAS #2: used when making gas test on amplifier tubes.
 - g. S8 - PLT #2: used when testing multiunit tubes with electrically similar sections. By depressing S8, the test conditions are transferred from one section of the tube to the other; thus, each section can be independently evaluated.
 - h. S9 - VR MILS: this switch converts the test meter into a 0-100 milliammeter during the V. R. tests.
 - i. S10 - LINE: used in conjunction with the LINE TEST point on the meter to standardize tube test potentials.
 10. The VR VOLTAGE adjust is used to control the voltage applied to voltage regulator tubes during a V. R. test.
 11. The LIFE TEST switch is used when making a reserve life test on a tube. When this switch is pressed, the filament voltage of the tube under test is reduced by approximately 10% of its normal value. The efficiency of the cathode of the tube under test can then be evaluated and the future life of the tube approximated.
- #### B. The TEST METER gives a quantitative indication of the tube-test results on three separate scales.
1. The LEAKAGE scale is calibrated in ohms. Interelement leakage paths up through 10 meg-ohms can be measured.
 2. The MICROMHOS scale is used to give a quantitative indication of the results of the Gm, Emission, and Gas tests. The range of the basic 0-1500 micromho scale is extended by use of the MULTIPLIER switch. The readings obtained on this scale, when compared with the MINIMUM MUT. COND. column of the roll chart, are indicative of the performance capabilities of the tube under test.
 3. The VOLTS-MILS scale is calibrated in d. c. volts and milliamperes. During V. R. tests, it indicates the striking, operating and regulating

voltage of the V. R. tube, along with the current range over which the tube is regulating.

- C. The TEST SOCKETS are located along the upper edge of the panel and to the left of the test meter. The 15 tube sockets provided will accommodate the following tube-types: In-line and 8 pin Sub-miniatures, Octal, Loktal, 7 pin Miniature, 4, 5, 6 and 7 pin Standard, Acorn, and 9/10 pin miniature, 5 pin Nuvistor, 7 pin Nuvistor, Compactron and Novar.

D. LEADS, LAMPS and CONNECTIONS:

1. Two TEST LEADS are provided to make connections from the G, P and K panel jacks to the top caps of tubes as required. When the leads are not in use, they can be stored in the lead compartment at the top of the case.

The LINE FUSE lamp serves both as a protective device and an overload indicator. This lamp will light brightly when an overload is placed on the tester or the tube under test. When this occurs, turn OFF the equipment immediately. The LINE FUSE lamp (#81 or #63, depending upon the input voltage) is mounted in the upper left-hand portion of the main panel, where it is readily visible.

3. The BIAS FUSE lamp is connected into the bias supply circuit. It serves as a protection for the bias potentiometer in case an attempt is made to test a shorted tube. A burned-out BIAS FUSE lamp will result in the failure of the test meter to read when the Gm button is pressed. The BIAS FUSE lamp (#49) is mounted in the upper left-hand portion of the main panel, where it is readily visible.
4. One red and two black jacks, marked P, G and K, respectively, provide connections for the test leads necessary to test tubes with top cap connections.
5. The EXT. SELF BIAS RES. jacks provide the means of making self bias tests. **IMPORTANT:** the shorting link across the SELF BIAS terminals must be in place when these terminals are not in use.

E. TUBE TEST DATA:

1. All information necessary for properly setting the tube test controls for the various tube types is tabulated on the roll chart in nine columns under the following headings, reading from left to right:
 - a. TUBE TYPE: All currently available type numbers for the tubes which the Model 752 is designed to test are listed numerically in this column, starting with type 0A2 and continuing through type AX9903.
 - b. FILAMENT: Correct filament or heater voltages for the tube type to be tested are

shown in this column. The FILAMENT VOLTAGE switch must be adjusted BEFORE inserting a tube in any of the test sockets.

- c. SELECTORS: The tube pin selectors FILAMENT (2), GRID A, GRID B, PLATE, SCREEN, CATHODE and SUPPRESSOR are to be set in accordance with the two groups of four digit numbers appearing in this column. For example, the selector settings for the 12AT7 are listed as 4572-6183; the selectors are set as follows:

SELECTOR	POSITION NO.
FILAMENT	4
FILAMENT	5
GRID A	7
GRID B	2
PLATE	6
SCREEN	1
CATHODE	8
SUPPRESSOR	3

- d. BIAS: This column lists the proper settings for the BIAS dial which controls the bias voltage applied to the tube under test.
- e. SHUNT: This column lists the settings for the SHUNT dial which controls the sensitivity of the meter circuit. Adjustment of this dial is only required when the MULTIPLIER switch is in the SH position.
- f. MULT: This column lists the position to which the MULTIPLIER switch should be set to provide the proper meter range for the type of tube under test.
- g. PRESS: This column lists the proper push button switches to be pressed to complete the various test circuits applicable to the tube under test.
- h. MINIMUM MUT. COND: In this column are the minimum mutual conductance rejection values for amplifier tubes and amplifier sections of multi-purpose tubes. The rejection values for rectifier and detector type diodes are also listed in this column, along with the nominal operating voltage for V. R. tubes.
- i. NOTATIONS: Listed in this column is special information applicable to the tube under test.

SECTION II: GENERAL OPERATING PROCEDURES

A. PRELIMINARY PROCEDURES:

1. Remove the line cord from the lead compartment and connect its plug into a power outlet of either 115 volts or 230 volts, 60 cycles, depending upon the mode of operation. See the instructions on pages two and three for the

correct hook-up of 115-volt operation or 230-volt operation. NEVER CONNECT THIS EQUIPMENT TO A DC POWER SOURCE.

CAUTION

DO NOT INSERT TUBE TO BE TESTED INTO TEST SOCKET UNTIL CORRECT SETTING OF ALL CONTROLS HAS BEEN MADE IN ACCORDANCE WITH THE FOLLOWING STEPS.

2. Operate the thumb gear which turns the roll chart mechanism until the tube number of the tube to be tested appears in the roll chart window. A red index line aids in selecting correct data line from the roll chart.
3. Turn the knob of the FILAMENT VOLTAGE switch to the voltage indicated on the roll chart under the heading FIL.
4. Set the eight tube pin selector switches in accordance with two groups of four digit numbers appearing in the column headed SELECTORS.

The selector switches are electrically interlocked in such a way that it is impossible to connect two different voltages to the same tube pin at the same time. Accidental shorts are thus avoided.

5. Set the BIAS dial to the numerical setting listed on the roll chart under the heading of BIAS.
6. Set the SHUNT dial to the numerical setting listed on the roll chart under the heading of SHUNT. If no setting of this dial is required, a short dotted line will appear in the column.
7. Set the MULTIPLIER switch to the position indicated on the roll chart.
8. Set the LEAKAGE switch to the TUBE TEST POSITION.
9. Insert the tube to be tested into the proper test socket, and if applicable, make top cap connection as called for in NOTATIONS column of the roll chart.
10. Set the POWER ON-OFF to the ON position.

NOTE: ALLOW SUFFICIENT TIME FOR THE TUBE UNDER TEST TO REACH ITS OPERATING TEMPERATURE BEFORE PROCEEDING.

11. LINE TEST: Depress push button S10 and rotate the LINE ADJUST control until the test meter pointer indicates to the line marked "Line Test".

B. THE LEAKAGE TEST PROCEDURES:

1. Rotate the LEAKAGE switch from position number 1 through position number 6, while tapping the tube lightly with your finger and watching

the test meter for pointer deflection.

Tubes having interelement shorts and leakage paths will cause the meter pointer to move up scale in various positions of the LEAKAGE switch. A momentary deflection of the test meter pointer when the LEAKAGE switch is turned from one position to the next should be disregarded. These meter pointer deflections are caused by the charging of a capacitor in the leakage test circuit. Intermittent meter pointer deflections as a result of tapping the tube indicate loose elements which may cause noisy or erratic tube operation.

A leakage resistance of 10 megohms will cause the meter pointer to begin to indicate. A complete interelement short will cause the pointer to deflect full scale to give a zero ohms reading. The top scale of the meter is the LEAKAGE scale, and it is calibrated in ohms such that the resistance of leakage paths up to 10 megohms can be read directly from the scale.

2. A shorted tube or one with excessive interelement leakage should be discarded with no further testing.
3. Multisection tubes containing dissimilar sections, such as the 6CG8, should be tested for shorts and leakage on both sections.
4. Multisection tubes containing electrically similar sections, such as the 6J6, can make use of the DUAL TEST circuit.

FOR EXAMPLE: For dual triodes, make the normal leakage test as described in step 1 of part (B); then depress push button S8 and repeat the leakage test for the second section.

5. Table No. 1: Leakage Test Chart, is to be used for identifying interelement leakage paths. In Table No. 1 an (X) under any LEAKAGE switch position represents a meter pointer deflection in that position; thus, by referring to the Leakage Path column of Table No. 1, the defective elements can be identified.
6. The circuit used in testing dual triodes is such that the SCREEN selector is used as the plate of the second section, and the SUPPRESSOR selector is used as the cathode of the second section. Thus, plate to plate and cathode to cathode, shorts or leakages will be identified on the Leakage Test Chart as plate to screen and cathode to suppressor shorts or leakages.
7. Some tubes will show a shorted condition on certain positions of the LEAKAGE switch even though they are good tubes. These positions are noted in the NOTATIONS column of the roll chart. That is, "Short on 1 and 2" means that a short indication on positions 1 and 2 is normal.

- C. MUTUAL CONDUCTANCE (Gm) TEST: This is the basic quality test for tubes used as amplifiers.

TABLE NO. 1: LEAKAGE TEST CHART

LEAKAGE PATH	LEAKAGE SWITCH POSITIONS					
	1	2	3	4	5	6
HEATER - CATHODE	X	X				
HEATER - GRID A			X	X	X	
HEATER - GRID B			X	X	X	X
HEATER - SCREEN			X			
HEATER - SUPPR.		X				
HEATER - PLATE			X	X		
CATH. - GRID A	X	X	X	X	X	
CATH. - GRID B	X	X	X	X	X	X
CATH. - SCREEN	X	X	X			
CATH. - SUPPR.	X					
CATH. - PLATE	X	X	X	X		
GRID A - GRID B						X
GRID A - SCREEN				X	X	
GRID A - SUPPR.		X	X	X	X	
GRID A - PLATE					X	
GRID B - SCREEN				X	X	X
GRID B - SUPPR.		X	X	X	X	X
GRID B - PLATE					X	X
SCREEN - SUPPR.		X	X			
SCREEN - PLATE				X		
SUPPR. - PLATE		X	X	X		

After the controls are properly set in accordance with the roll chart data as outlined in Part A of this section and the tube has been tested for leakage in accordance with Part B of this section, proceed as follows:

1. Set the LEAKAGE switch to the TUBE TEST position.
2. Recheck LINE ADJUST TEST and reset if necessary.
3. Press the Gm push button S5 and observe the test meter indication.
4. Compare the numerical value of the meter reading on the 0-1500 scale with the minimum acceptable value listed on the roll chart under the column headed MINIMUM MUT. COND.
5. The meter reading can be read directly in micromhos through the use of the MULTIPLIER setting and the basic 0-1500 micromho scale.

NOTE: On special types of amplifier tubes, the push buttons to be used may vary with the particular tube type under test. Always refer to the roll chart for the correct push buttons to use.

D. GAS TEST: The push buttons S6 and S7 are used to test an amplifier tube for gas content. After the tube under test has been tested for Gm, proceed as follows:

1. Set the MULTIPLIER switch to the X2 position. This extends the Micromho Scale to the 0-3000 range.
2. Turn the BIAS dial full clockwise to indicate 100.
3. Depress push button S6 and hold in the down position while adjusting the BIAS dial until the pointer of the meter indicates 100 micromhos on the 0-3000 range.
4. Hold down S6 and depress push button S7 while observing the meter pointer.
5. If the tube contains gas, the pointer of the meter will move up scale. If the pointer movement is not more than two small scale divisions, the gas content is negligible.
6. With some tubes, such as the Type 45, the micromho reading cannot be brought down to 100 micromhos by turning the BIAS dial. In such cases, turn the BIAS dial clockwise to 100. Test for gas by noting whether the pointer moves more than two divisions up scale when S6 is held down and S7 is depressed.
7. Some tubes will give an indication of gas only after they have been operating for a period of time. If a tube is suspected of being gassy, allow it to heat for a few minutes.

E. RESERVE LIFE TEST: This test is used to ap-

proximate the future life of the tube. After the mutual conductance test has been made as previously described, proceed as follows:

1. Set the MULTIPLIER switch to the SH position.
2. Turn the SHUNT dial full clockwise to indicate 100.
3. Depress push button S5 and hold in down position while adjusting the SHUNT dial until the meter pointer indicates to 1000 on the 0-1500 scale.
4. Hold down S5 and depress the LIFE TEST switch. This switch reduces the filament voltage applied to the tube under test.
5. If the meter reading remains above mid-scale, the reserve life of the tube under test may be considered satisfactory.

F. RECTIFIER TUBE TEST: Rectifier tubes, including diode tubes and diode sections of multisection tubes, are tested for emission characteristics, since they have no mutual conductance characteristic. The push button switches S1, S2 and S3 are used to test various types of rectifiers and detector diodes.

1. The push button switch S1 is used when testing detector diodes. This switch supplies a test voltage sufficiently low in magnitude so as not to damage the delicate cathode of the diode under test.
2. The push button S2 is used when testing cold cathode rectifiers such as the 0Z4. This switch applies a test voltage sufficiently high to ionize the tube and start conduction.
3. The push button S3 is used when testing rectifier tubes such as 5Y3. This switch applies a test voltage of sufficient magnitude to reveal the defects in this type of tube.

G. DUAL TEST: For multisection tubes containing electrically similar sections, the notation DUAL TRIODE or DUAL DIODE will appear in the NOTATIONS column of the roll chart. When the dual test is called for, the following procedure is applicable:

1. DUAL TRIODE: After the controls are properly set in accordance with the roll chart data as outlined in Part A of this section, proceed as follows:
 - a. Rotate the LEAKAGE switch from position 1 through position 6 and observe the test meter for indications of leakage paths.
 - b. Depress push button S8 and repeat the leakage test for the second section of the tube.
 - c. Set the LEAKAGE switch to the TUBE TEST position.

- d. Depress push button S5 - Gm, and observe the test meter for an indication of the Gm of the first section. Release S5.
 - e. A Gas Test for the first section should be performed as described in Part D of this section.
 - f. After the first section has been completely tested, depress push button S8 and hold in down position while S5 is again depressed and the second section of the tube under test is checked for Gm.
 - h. During testing of each section of the dual triode, the grid of the unused section is kept at cut-off bias by the extra negative bias supply.
2. DUAL DIODE: The testing of dual diodes is performed as described above, with two exceptions:
- a. The diode test push button (S1, S2 or S3) as called for in the PRESS column of the roll chart is to be used in conjunction with S8.
 - b. The Gas Test is not applicable to diodes and rectifiers.

H. SPECIAL TUBE TYPES:

1. Voltage Regulator Tubes: The voltage regulator test circuit permits the testing of V. R. tubes under actual operating conditions. The V. R. test circuit measures the voltage drop across the tube under test; hence, the striking voltage and the voltage drop for minimum and maximum load currents can be read directly in volts on the test meter.

With the MULTIPLIER switch in the V. R. position, the VR VOLTAGE dial controls the magnitude of the test voltage applied to the tube. The push button switch S9 converts the test meter from a voltmeter to a milliammeter. The bottom scale of the meter is used to evaluate the results of the V. R. test. This scale is calibrated in VOLTS (0-200 v. d. c.) and MILS (0-100mA d. c.).

For example, the 0A3:

- a. Set the FILAMENT voltage switch to the OFF position.
- b. Set the tube pin selector switches to 0000-5020.
- c. Set the MULTIPLIER switch to the V. R. position.
- d. Turn the VR VOLTAGE control fully counterclockwise.
- e. Turn the LINE ADJUST control fully clockwise.

- f. Insert the 0A3 into its proper test socket and turn the tester ON.
- g. In the NOTATIONS column for the 0A3 is the voltage value 100V with a star in front of it. This notation represents the approximate starting voltage for the V. R. tube. In the column MINIMUM MUT. COND. is the voltage value 75V. This represents the nominal operating voltage for the V. R. tube.
- h. Rotate the VR VOLTAGE control slowly clockwise. The meter pointer should begin to indicate. The voltage value is read on the 0-200 volts scale.
- i. When the meter indicates approximately 100 volts, the tube should fire. This will cause the meter pointer to hesitate and drop back to the operating voltage value of the tube under test. In the case of the 0A3, it is 75V.
- j. Depress push button S9 - VR MILS. This converts the test meter from a voltmeter to a milliammeter, and it should indicate approximately 5mA on the 0-100 MILS scale.
- k. While holding S9 in the down position, continue to rotate the VR VOLTAGE control clockwise until the test meter indicates 40mA.
- l. Release S9 and read the voltage indicated on the test meter. For a good 0A3, the operating voltage should not have risen more than 5 volts above the nominal operating voltage.

2. Certain pentode tubes, such as the 6AJ5, require a low screen voltage and a normal plate voltage during test. This is accomplished by holding down S1 and pressing S5. When applicable, a note is printed on the roll chart under the heading of NOTATIONS: HOLD DOWN S1 AND PRESS S5.

3. Cathode-Ray Tube Test. With the use of the Hickok CRT Adapter, magnetic or electrostatic type T. V. picture tubes having a small shell duo-decal base can be given an interelement leakage test, a cathode emission test, a control grid test and a gas test.

a. Preliminary Instructions:

- (1) Remove the socket from the cathode-ray tube to be tested.
- (2) Affix the CRT Adapter to the tube to be tested.
- (3) Attach the red lead to the No. 2 anode of the tube under test.
- (4) Insert the 8 pin plug on the cable of the CRT Adapter into the octal tube test socket on the main panel of the Model 752A.

b. Cathode Emission Test.

(1) Set the selectors and dials as follows:

FIL	SELECT.	BIAS	SH	MULT	PRESS	MIN. MUT. COND.
6.3	7230-5084	0	75	SH	S1	650

- (2) Make an interelement leakage test by rotating the LEAKAGE switch through positions 1 through 6.
- (3) Set the LEAKAGE switch to the TUBE TEST position.
- (4) Depress S1 and observe the test meter indication. A good tube should read above the recommended reject value noted above.

c. Grid Control and Gas Test.

(1) Set the selectors and dials as follows:

FIL	SELECTORS	BIAS	SHUNT	MULT	PRESS
6.3	7250-3084	*	0	SH	S6

- (2) Make an interelement leakage test as described above.
- (3) Set the LEAKAGE switch to the TUBE TEST position.
- (4) * Hold down S6 and rotate the BIAS dial. If the control grid is functioning, the meter pointer will move up and down scale.
- (5) Gas Test: Adjust BIAS control until the test meter reads one small scale division. Hold down S6 and depress S7.

If the meter pointer moves up scale more than one division, the tube is gassy.

The Hickok CRT Adapter (Code No. 1050-28) is available through Hickok distributors.

J. DIODE TESTING:

1. Silicon or Germanium Diodes are tested for their rectification quality. To test these types on the Model 752A Tube Tester, proceed as follows:
 - a. Set the FILAMENT switch to the OFF position.
 - b. Set the tube pin selector switches to 0000-6030.
 - c. Set the LEAKAGE switch to the TUBE TEST position.
 - d. Set the BIAS control to 0.
 - e. Set the MULTIPLIER switch to the SH position.
 - f. Set the SHUNT control to the 65 dial mark.
 - g. Connect the cathode lead of the diode to pin 3 of the octal test socket and the anode lead of the diode to pin 6 of the octal test socket. (If more convenient, the grid and plate leads supplied with the tester may be used to make these connections.)
 - h. Place the POWER ON-OFF switch to the ON position and make line test in the usual manner.
 - i. Depress push button S3 and observe the test meter. The test meter reading should be above 650 to indicate a good diode. A zero test meter reading indicates that the diode is either shorted or open. NOTE: If the test meter indicates down scale, reverse the diode leads and repeat this step.

CHAPTER III PARTS LIST

Reference designations have been assigned to identify all parts used in this instrument. An asterisk designates a part which should be replaced by authorized Hickok repair stations or factories. It is therefore recommended that the entire instrument be returned for repair if trouble exists with such a part.

In ordering parts, refer to the current parts price list for this instrument. Prices are subject to change without notice, and the minimum billing charge is \$3.50.

REF. DESIG.	NAME AND DESCRIPTION	HICKOK PART NO.
A1	DIAL ASSEMBLY: SHUNT	4160-66
A2	DIAL ASSEMBLY: BIAS	4160-67
A3	INDEX ROLLER ASSEMBLY	9600-42
C1	Not assigned	
C2	CAPACITOR, FIXED, PLASTIC: .5 uf, 200 volts	3105-206
C3	CAPACITOR, FIXED, PLASTIC: .1 uf, 200 volts	3105-210
C4	CAPACITOR, FIXED, ELECTROLYTIC: 8 uf, 350 volts	3085-68
C5	CAPACITOR, FIXED, ELECTROLYTIC: 50 uf, 6 volts	3085-45
C6	CAPACITOR, FIXED, CERAMIC: .005 uf, -0 +100%, disc type	3110-7
CR1	RECTIFIER: full wave, copper oxide	18150-42
CR2	CRYSTAL: SC91	3870-41
DS1	LAMP: Roll chart, 7 watt, 115 volts	12270-41
DS1	LAMP: #10S6/10, clear, 10W, 230 V, used on roll chart for 230 V operation	12270-59
DS2, DS3	LAMP: #51 supplied with meter	
E1	BAR: shorting	2145-2
F1	LAMP: #81 auto tungsol, bayonet base (LINE FUSE) for 115 V operation	12270-2
F1	LAMP: #63 bayonet base for 230 V operation	12270-58
F2	LAMP: #49 pilot, bayonet base, (BIAS FUSE)	12270-17
M1	METER: Model 68	680-303
MP1	BUTTON: push, black	2920-7
MP2	BUTTON: push, red	2920-8
MP3	BUTTON: push, green	2920-13
MP4 thru MP15	KNOB: phenolic, black	11505-55
MP16	KNOB: machined, bar type, with white dot and pointer	11500-11
MP17 thru MP23	Same as MP1	
P1	CORD: AC line	3675-34
J1	JACK: pin plug type, red, (PLATE)	10300-1
J2	JACK: pin plug type, black, (GRID)	10300-2
J3, J4	BINDING POST	2360-51
J5	Same as J2, (CATHODE)	
R1	RESISTOR: 100 ohms, 10%, 10 watt, center tapped	18575-19
R2	RESISTOR, FIXED: 215K ohms, 1%, 1/2 watt	18537-61
R3	RESISTOR, FIXED: 270 ohms, 5%, 1/2 watt	18411-271
R4	Not assigned	
R5	POTENTIOMETER: 50K ohms, screw driver slot	16925-473
R6	RESISTOR, FIXED: 200 ohms, 1%, 2 watt	18540-5
R7	Same as R1	
R8	RESISTOR, FIXED: 180K ohms, 10%, 1/2 watt	18414-182
R9	RESISTOR, FIXED: 2 megohms, 5%, 1/2 watt	18415-201
R10	POTENTIOMETER: 500 ohms	16925-376
R11	RESISTOR, FIXED: 470K ohms, 1%, 1/2 watt	18537-66
R12	RESISTOR, FIXED: 470 ohms, 5%, 2 watt	18431-471
R13	RESISTOR, FIXED, FILM: 10 ohms, 1%, 1/2 watt	18537-217
R14	RHEOSTAT: 10,000 ohms, 50 watt	18750-26
R15	RESISTOR, FIXED: 2920 ohms, 1%, 1/2 watt	18537-67
R16	RESISTOR, FIXED: 1200 ohms, 10%, 1 watt	18422-122
R17	RESISTOR, FIXED: 1800 ohms, 10%, 10 watt	18575-12
R18	RHEOSTAT: 350 ohms, 25 watt	18750-37
R19	RESISTOR, FIXED: 12 ohms, 1%, 1/2 watt	18537-59
R20	POTENTIOMETER: 50 ohms	16925-271
R21	RESISTOR, FIXED: 119 ohms, 1%, 1/2 watt	18537-62
R22	RESISTOR, FIXED: 47 ohms, 10%, 1/2 watt	18410-472
R23, R24	RESISTOR, FIXED: 41 ohms, 1%, 1/2 watt	18537-60

REF. DESIG.	NAME AND DESCRIPTION	HICKOK PART NO.
R25	RESISTOR, FIXED: 15,000 ohms, 5%, 1 watt	18423-151
R26	Same as R21	
R27	RESISTOR: wire wound, 8500 ohms, 10%, 10 watt	18575-89
R28	POTENTIOMETER: adjusted, 3000 ohms	16926-5
R29, R30	POTENTIOMETER: 150-150 ohms, wire wound	16925-90
R31	RESISTOR, FIXED: 500 ohms, 1%, 1/2 watt	18537-58
R32	RESISTOR, FIXED: 250 ohms, 1%, 1/2 watt	18537-63
R33	RESISTOR, FIXED: 150 ohms, 1%, 1/2 watt	18537-64
R34, R35	RESISTOR, FIXED: 50 ohms, 1%, 1/2 watt	18537-65
R36	RESISTOR, FIXED: 200K ohms, 1%, 1/2 watt	18537-46
R37	RESISTOR, FIXED: 1000 ohms, 10%, 1/2 watt	18412-102
S1	SWITCH: push type, (DIODE)	18910-132
S2	Same as S1 (OZ4)	
S3	Same as S1 (RECT)	
S4	Same as S1 (LOW PLATE)	
S5	Same as S1 (Gm)	
S6	Same as S1 (GAS 1)	
S7	Same as S1 (GAS 2)	
S8	Same as S1 (PLATE 2)	
S9	Same as S1 (VR MILS)	
S10	Same as S1 (LINE ADJ)	
S11	SWITCH: toggle, S. P. S. T.	19911-9
S12	SWITCH: push button, D. P. D. T. (LIFE TEST)	19910-118
S13	SWITCH, ROTARY: 2 section, 3 pole, 20 position (FILAMENT)	19912-386
S14	SWITCH, ROTARY: 1 section, interlocking, 14 position (FILAMENT)	19912-477
S15	Same as S14 (FILAMENT)	
S16	Same as S14 (GRID A)	
S17	Same as S14 (GRID B)	
S18	Same as S14 (PLATE)	
S19	Same as S14 (SCREEN)	
S20, S21	SWITCH, ROTARY: 1 section, 14 position (CATHODE)	19912-469
S22	SWITCH, ROTARY: 5 section, 7 position (MULTIPLIER)	19912-374
S23	SWITCH, ROTARY: 5 section, 7 position (LEAKAGE)	19912-373
T1	TRANSFORMER: power	20800-304
V1	TUBE: #83	20875-28
V2	TUBE: #5Y3GT/G	20875-6
W1	LEAD ASSEMBLY:	12450-145
W2	LEAD ASSEMBLY:	12450-180
XDS1	SOCKET: bayonet, small	19350-1
XF1	SOCKET: bayonet, miniature	19350-203
XF2	SOCKET: candelabra	19350-2
XV1	SOCKET: wafer, octal	19350-156
XV2	SOCKET: wafer, 4 pin	19350-157
X1	SOCKET: 4 pin	19350-93
X2	SOCKET: 5 pin	19350-94
X3	SOCKET: 6 pin	19350-95
X4	SOCKET: 7 pin	19350-270
X5	SOCKET: 8 pin octal	19350-97
X6	SOCKET: 8 pin, loctal	19350-99
X7	SOCKET: 7 pin	19350-136
X8	SOCKET: acorn, 7 contact	19350-43
X9	SOCKET: 10 pin	19350-364
X10, X11	SOCKET: combination, 7-8 pin (sub-miniature and in-line)	19351-16
X12	SOCKET: Nuovistor, 5 pin	19350-336
X13	SOCKET: 9 pin	19350-367
X14	SOCKET: Compactron	19350-365
X15	SOCKET: Nuovistor, 7 pin	19350-382
	BOOKLET: Instructions	2490-582

ION

K15

7 PIN
NUVISTOR

ALT	DRAWING NUMBER
	901-280 W

819

SCREEN

SELECTORS

← FRONT OF SECTIONS

LINE
JUST

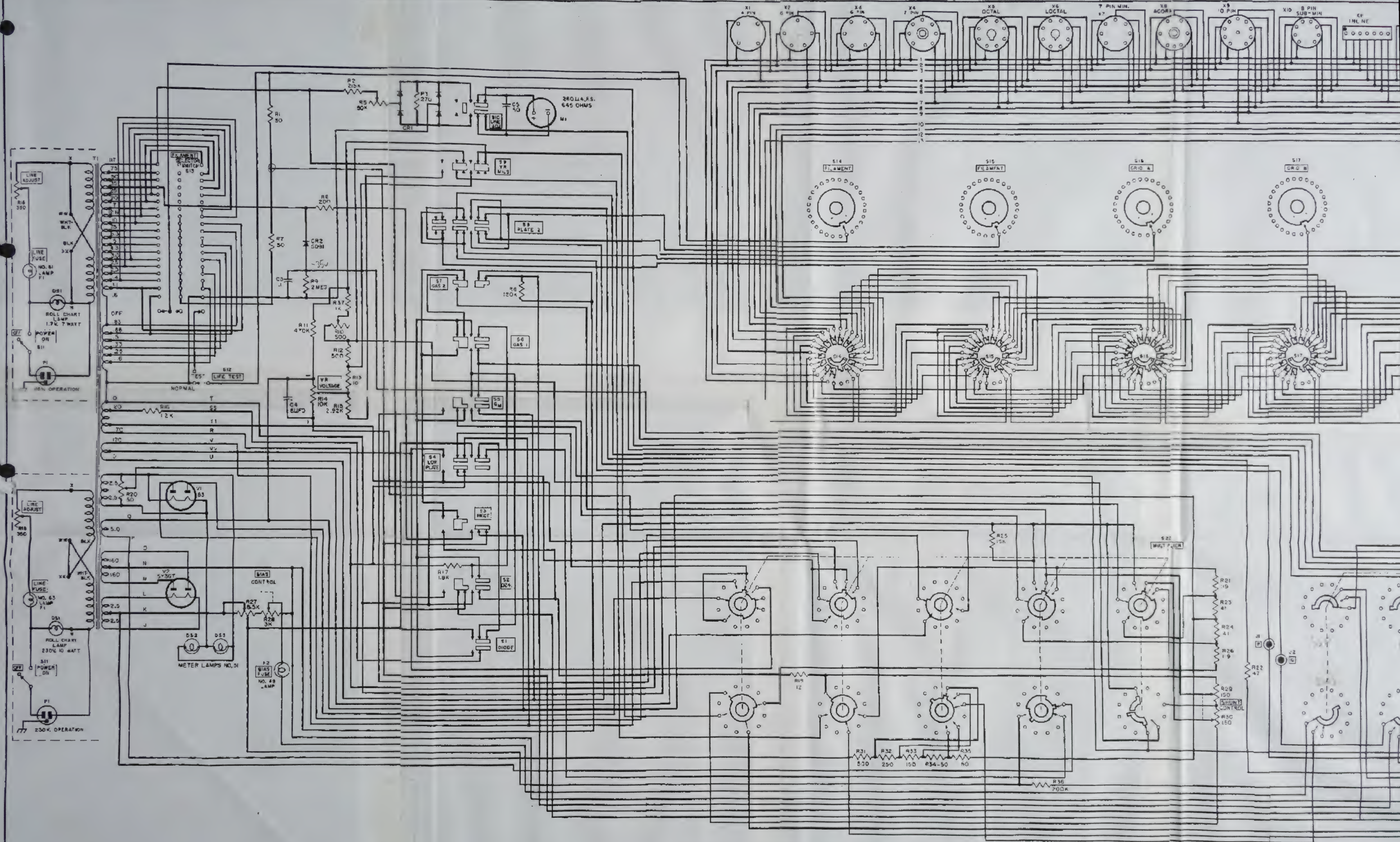
LINE
FUSE

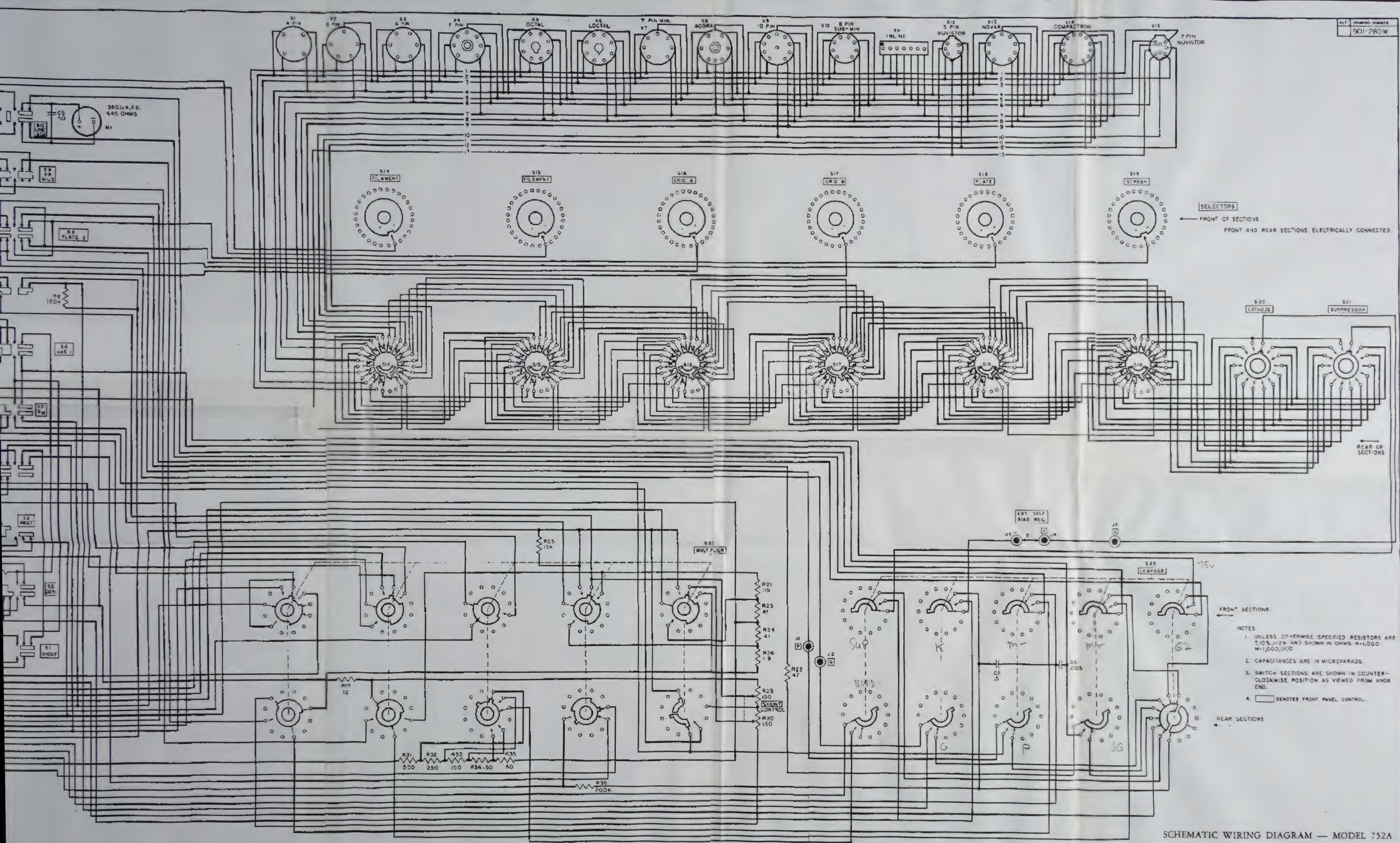
NO. 8
LAMP
FI

RO
1.2
POWER
ON
811

PI

TV ON





SELECTORS
FRONT OF SECTIONS
FRONT AND REAR SECTIONS ELECTRICALLY CONNECTED

- NOTES
1. UNLESS OTHERWISE SPECIFIED RESISTORS ARE 5% TOLERANCE AND SHOWN IN OHMS. K=1,000 M=1,000,000
 2. CAPACITANCES ARE IN MICROFARADS.
 3. SWITCH SECTIONS ARE SHOWN IN COUNTER-CLOCKWISE POSITION AS VIEWED FROM KNOB END.
 4. DENOTES FRONT PANEL CONTROL.
- FRONT SECTIONS
REAR SECTIONS

SCHEMATIC WIRING DIAGRAM — MODEL 752A

OPERATING INSTRUCTIONS
AND
ORDERING INFORMATION

FOR THE

MODEL CA-4 ADAPTER

Hickok

INSTRUCTIONS FOR USING THE MODEL CA-4 COMPACTRON ADAPTER
WITH A "CARDMATIC" TUBE TESTER

The Hickok Model CA-4 Compactron Adapter is used in conjunction with Hickok CARDMATIC and Roll-Chart tube testers to test Compactrons, Novars, 5 and 7-pin Nuvistors, and 10-pin header tubes.

The CA-4 Adapter consists of:

- Eight (8) rotary switches which are used to select the pins of each individual element of the tube to be tested.
- Five (5) tube sockets.
- Three (3) jacks labeled "G", "P", and "K" which are used for connection to the tube top cap.
- A test plug which is connected to the CA-4 by a cable. This test plug is inserted into the octal socket of the tube tester that is to be used with the CA-4. Table No. 1 lists the pin numbers of the test plug and the associated tube element switch.

The test data cards of the tube tester will have the normal information with the addition of an eight digit number in the lower right hand corner. The eight digit number is given in two series of four (4) digits. The first series pertains to the top row of four switches on the CA-4 (FILAMENT, FILAMENT, GRID A, and GRID B). The second series pertains to the lower row of four switches (PLATE, SCREEN, CATHODE, and SUPPRESSOR). All switch settings should be set from left to right according to the sequence given on the test card.

CAUTION

Before placing the test card into a CARDMATIC Tube Tester, set all eight of the tube element switches to the positions specified on the data card. This is important. Failure to observe this caution may short the tube tester power supplies. Always re-set the CA-4 selectors with no test card in the CARDMATIC switch.

The tube element switch settings on the adapter are connected in parallel with the pins of each tube socket mounted on the CA-4. Table No. 2 lists the switch and the associated pin number of the tube sockets.

The three jacks marked "G", "P", and "K" located on the left side of the adapter are internally connected to their respective element switch (grid, plate, and cathode). They are used for cap connection (test lead supplied). Test cards for CARDMATIC tube testers marked "G" "P" or "K" immediately after the eight digit number indicate that the top cap of the tube under test is to be connected to that respective jack. Disregard the cap connector that is attached to the panel of the CARDMATIC tester when using the CA-4.

OCTAL PLUG PIN NUMBER	TUBE ELEMENT SWITCH
1	FILAMENT
2	FILAMENT
3	GRID A
4	GRID B
5	PLATE
6	SCREEN
7	CATHODE
8	SUPPRESSOR

SWITCH SETTINGS	PIN NUMBERS
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
A	10
B	11
C	12
D	No Connection
0	No Connection

Table No. 1

INSTRUCTIONS FOR USING THE MODEL CA-4 COMPACTRON ADAPTER
WITH A ROLL-CHART TUBE TESTER

The Hickok Model CA-4 Compactron Adapter is used in conjunction with Hickok CARDMATIC and Roll-Chart tube testers to test Compactrons, Novars, 5 and 7-pin Nuvistors, and 10-pin header tubes.

The CA-4 Adapter consists of:

- Eight (8) rotary switches which are used to select the pins of each individual element of the tube to be tested.
- Five (5) tube sockets.
- Three (3) jacks labeled "G", "P", and "K" which are used for connection to the tube top cap.
- A test plug which is connected to the CA-4 by a cable. This test plug is inserted into the octal socket of the tube tester that is to be used with the CA-4. The following table lists the pin numbers of the test plug and the associated tube element switch.

OCTAL PLUG PIN NUMBER	TUBE ELEMENT SWITCH
1	FILAMENT
2	FILAMENT
3	GRID A
4	GRID B
5	PLATE
6	SCREEN
7	CATHODE
8	SUPPRESSOR

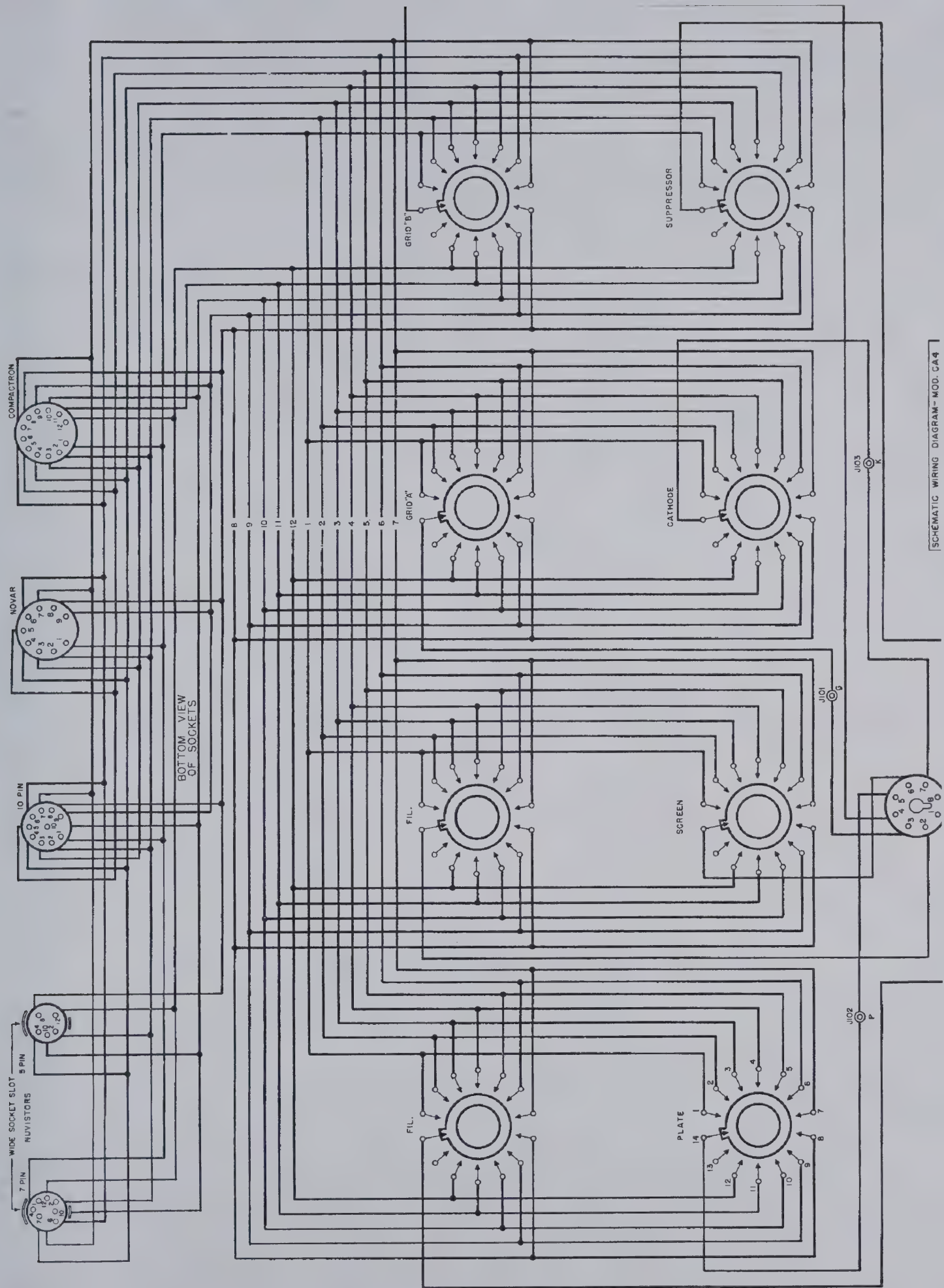
The tube element switch settings on the adapter are connected in parallel with the pins of each tube socket mounted on the CA-4. The following table lists the switch and the associated pin number of the tube sockets.

SWITCH SETTINGS	PIN NUMBERS
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
A	10
B	11
C	12
D	No Connection
0	No Connection

The three jacks marked "G", "P", and "K" located on the left side of the adapter are internally connected to their respective element switch (grid, plate, and cathode). They are used for cap connections (test lead supplied). The proper top cap connection is indicated in the NOTATIONS column of the chart on the following pages.

CAUTION

When using the CA-4 with a Roll-Chart tube tester set the element switches as specified before inserting the tube to be tested.



SCHEMATIC WIRING DIAGRAM - MOD. CA 4

RCD
9-11-75
RC 52662-13

TEST DATA
MODEL 752 & 752A
TUBE TESTERS

THE HICKOK ELECTRICAL INSTRUMENT CO.
10514 DUPONT AVENUE • CLEVELAND, OHIO 44105
PHONE—(216) 541-8060 TWX—810-421-8286
PRINTED IN U.S.A.

[illegible]

TUBE TYPE	PL	SELECTIONS	WAS	SHUNT	MULT	PRESS	NUMERICAL MULT COMP	NOTATIONS
2T4	2.5	4320-1050	16	---	X10	S4	400	
3A2	3.0	1200-0000	0	85	SH	S6	650	Cap-P
3A3	3.0	7200-0000	0	75	SH	S6	650	Cap-P
3AF4A	3.0	4320-1050	16	---	X10	S4	400	Cap-P
3AL5	3.0	4300-7215	0	78	SH	S1	400	Cap-P
3AT21	3.0	1000-0000	0	86	SH	S6	400	Cap-P
3AU6	3.0	4310-5672	10	---	X4	S5	475	Triode Diode
3AV6	3.0	4310-7025	14	---	X4	S5	200	Triode Diode
3AV6	3.0	4300-5527	0	30	SH	S1	400	Cap-P
3AV6	3.0	2000-0000	0	87	SH	S6	400	Cap-P
3AW21	3.0	7200-0000	0	75	SH	S6	650	Cap-P
3B2	3.0	7200-0000	0	68	SH	S6	650	Cap-P
3B4	2.5	4530-7100	50	---	X2	S5	625	Cap-P
3B24	3.0	4100-0000	0	90	SH	S6	650	Cap-P
3B24	3.0	2100-0000	0	90	SH	S6	650	Cap-P
3B26	3.0	7200-0000	0	92	SH	S6	650	Cap-P
3B29	4.3	4100-0000	0	41	SH	S2	650	Cap-P
3BA6	3.0	4310-5672	0	94	SH	S6	650	Cap-P
3BC5	3.0	4310-5620	11	---	X4	S5	500	Cap-P
3BE6	3.0	4370-5621	0	---	X2	S5	675	Cap-P
3BE6	3.0	4310-6027	20	---	X10	S6	250	Cap-P
3BL21	3.0	1000-0000	0	88	SH	S6	400	Cap-P
3BN21	3.0	1000-0000	0	88	SH	S6	400	Cap-P
3BN21	3.0	1000-0000	0	68	SH	S6	650	Cap-P
3BN4	3.0	4320-5010	16	---	X10	S5	425	Cap-P
3BN4A	3.0	4320-5010	16	---	X10	S5	500	Cap-P
3BN6	3.0	4360-7512	0	---	X1	S5	500	Cap-P
3BN6	3.0	4360-7512	0	---	X1	S5	525	Cap-P
3BS21	3.0	1000-0000	0	85	SH	S6	400	Cap-P
3BT21	3.0	2000-0000	0	87	SH	S6	400	Cap-P
3BU8	3.0	4570-8219	0	---	X2	S6	175	Cap-P
3BU8	3.0	4570-3216	0	---	X2	S6	175	Cap-P
3BW21	3.0	1000-0000	0	90	SH	S6	400	Cap-P
3BX6	3.0	4520-7819	10	---	X10	S5	400	Cap-P
3BY6	3.0	4310-5627	12	---	X2	S5	375	Cap-P
3BY6	3.0	4370-5621	16	---	X2	S5	150	Cap-P
3BZ6	3.0	4310-5627	10	---	X4	S5	700	Cap-P
3C4	2.5	1760-2300	23	---	X2	S4	425	Cap-P
3C24	6.3	4100-0000	0	85	SH	S6	275	Cap-P
3CA3	3.0	7200-0000	0	85	SH	S6	400	Cap-P
3CB6	3.0	4310-5627	10	---	X4	S5	700	Cap-P
3CE5	3.0	4310-5620	10	---	X4	S5	700	Cap-P
3CN3A	3.0	2700-0000	0	87	SH	S6	400	Cap-P
3CS6	3.0	4310-5627	16	---	X1	S5	200	Cap-P
3CS6	3.0	4370-5621	0	88	SH	S6	775	Cap-P
3CU3	3.0	2700-0000	0	86	SH	S6	400	Cap-P
3CV3	3.0	7200-0000	0	87	SH	S6	400	Cap-P
3CX3	3.0	3800-0000	0	87	SH	S6	400	Cap-P
3CY3	3.0	7200-0000	0	87	SH	S6	400	Cap-P

TUBE TYPE	PL	SELECTIONS	WAS	SHUNT	MULT	PRESS	NUMERICAL MULT COMP	NOTATIONS
3CY5	3.0	4310-5620	12	---	X4	S6	625	Cap-P
3CZ3	3.0	2700-0000	0	86	SH	S6	400	Cap-P
3D21A	12.5	7280-0480	32	---	X4	S6	800	Cap-P
3DA3	3.0	3800-0000	0	87	SH	S6	400	Cap-P
3DB3	3.0	7200-0000	0	75	SH	S6	650	Cap-P
3DC3	3.0	7200-0000	0	85	SH	S6	400	Cap-P
3DF3	3.0	3800-0000	0	87	SH	S6	400	Cap-P
3DG4	3.0	3100-7500	0	63	SH	S3	800	Cap-P
3DH3	3.0	3800-0000	0	90	SH	S6	400	Cap-P
3DJ3	3.0	7200-0000	0	90	SH	S6	400	Cap-P
3DK6	3.0	4310-5627	10	---	X10	S5	400	Cap-P
3DR3	3.0	3800-0000	0	90	SH	S6	400	Cap-P
3DS3	3.0	3800-0000	0	90	SH	S6	400	Cap-P
3DT6	3.0	4310-5627	12	---	X1	S5	375	Cap-P
3DT6	3.0	4370-5621	8	---	X1	S5	300	Cap-P
3DX4	3.0	3420-1050	26	---	X10	S5	500	Cap-P
3DZ4	3.0	4320-1050	12	---	X10	S4	500	Cap-P
3E29	6.3	5762-0340	16	---	X10	S5	475	Cap-P
3EA5	3.0	4310-5620	12	---	X10	S5	375	Cap-P
3EH7	3.0	4520-7819	17	---	X4	S5	650	Cap-P
3EJ7	3.0	4520-7819	10	---	X10	S5	500	Cap-P
3ER6	3.0	4320-5670	11	---	X10	S5	650	Cap-P
3EV5	3.0	3410-5620	10	---	X10	S5	550	Cap-P
3FH6	3.0	3420-5070	12	---	X10	S5	550	Cap-P
3FSS	3.0	4310-5670	10	---	X10	S5	500	Cap-P
3GK5	3.0	3420-5076	14	---	X10	S5	750	Cap-P
3GW5	3.0	4320-1050	19	---	X10	S5	300	Cap-P
3HA5	2.5	4310-5076	17	---	X10	S5	475	Cap-P
3HK5	3.0	4310-5020	17	---	X10	S5	680	Cap-P
3HMB	3.0	4310-5076	17	---	X10	S5	475	Cap-P
3HO5	3.0	4310-5076	14	---	X20	S5	450	Cap-P
3JOC6	3.0	4520-7819	11	---	X10	S5	700	Cap-P
3JOC6	3.0	4520-7839	10	---	X10	S5	440	Cap-P
3LD6	3.0	4310-5627	12	---	X10	S5	375	Cap-P
3LH6	3.0	4570-8219	10	---	X2	S5	225	Cap-P
3KF8	3.0	4570-3216	10	---	X2	S5	225	Cap-P
3KTF8	3.0	4520-7819	9	---	X10	S5	760	Cap-P
3KT6	3.0	4520-2300	0	---	X4	S5	300	Cap-P
3V4	7.5	1740-0900	Test for Shorts Only.	---	X4	S5	475	Cap-P
4-65A	4.3	4310-5672	10	---	X4	S5	200	Cap-P
4AU6	4.3	4310-7025	14	---	SH	B1	400	Cap-P
4AV6	4.3	4310-5627	11	---	X4	S5	675	Cap-P
4B05	4.3	4310-5620	18	---	X10	S5	500	Cap-P
4B08	4.3	4572-6183	0	---	X1	S5	500	Cap-P
4BN6	4.3	4320-7516	0	---	X1	S5	500	Cap-P
4B07A	4.3	4572-6183	15	---	X10	S5	500	Cap-P
4BS8	4.3	4572-6183	16	---	X10	S5	400	Cap-P

[illegible]

TUBE TYPE	FL	SELECTIONS	MASS	SHUNT	MULT	PRESS	NUMERICAL MUT COND	NOTATIONS
5EU8	5.0	4570-1980	9	---	X4	S5	550	Pent. Sect.
5EU8	5.0	4520-3080	10	---	X10	S5	525	Triode Sect.
5EW6	5.0	4310-5627	11	---	X4	S5	775	
5FG7	5.0	4590-6780	10	---	X4	S5	575	Pent. Sect.
5FG7	5.0	4510-2030	14	---	X10	S6	475	Triode Sect.
5FV8	5.0	4590-6780	10	---	X4	S5	550	Pent. Sect.
5FV8	5.0	4510-2030	15	---	X10	S5	450	Triode Sect.
5GH8	5.0	4520-6370	11	---	X4	S5	625	Pent. Sect.
5GH8	5.0	4590-1080	13	---	X10	S5	625	Triode Sect.
5GM6	5.0	4310-5627	10	---	X10	S5	575	
5GS7	5.0	4590-6780	10	---	X10	S5	500	Pent. Sect.
5GS7	5.0	4510-2030	33	---	X10	S5	300	Triode Sect.
5GX6	5.0	3410-5627	13	---	X2	S5	575	
5GX7	5.0	4520-6710	11	---	X10	S5	450	Pent. Sect.
5GX7	5.0	4590-8010	15	---	X10	S5	600	Triode Sect.
5HA7	5.0	1090-A040	22	---	X4	S5	475	
5HA7	5.0	1090-2030	14	---	X4	S5	200	
5HB7	5.0	4520-6710	12	---	X4	S5	675	Pent. Sect.
5HB7	5.0	4590-8010	12	---	X20	S5	300	Triode Sect.
5HC7	5.0	1090-A040	14	---	X10	S5	550	Triode No. 1
5HC7	5.0	1090-2030	12	---	X1	S5	475	Pent. Sect.
5HG8	5.0	4520-6930	11	---	X10	S5	350	Triode Sect.
5HG8	5.0	4560-7030	33	---	X10	S5	450	
5HZ6	5.0	3410-5627	10	---	X2	S5	325	
5J6	5.0	4356-2170	17	---	X10	S5	625	
5J6	5.0	3410-5627	14	---	X20	S5	625	
5J6	5.0	3410-5627	20	---	X10	S5	600	
5J6	5.0	4520-6370	6	---	X4	S5	700	Pent. Sect.
5KD8	5.0	4590-1080	17	---	X10	S5	500	Triode Sect.
5KE8	5.0	4520-6370	9	---	X10	S5	475	Pent. Sect.
5KE8	5.0	4590-1080	17	---	X10	S5	625	Triode Sect.
5KZ8	5.0	4520-6730	14	---	X4	S5	400	Pent. Sect.
5KZ8	5.0	4590-1080	18	---	X10	S5	625	Triode Sect.
5LJ8	5.0	4590-6780	10	---	X10	S5	500	Triode Sect.
5LJ8	5.0	4510-2030	10	---	X10	S5	550	Pent. Sect.
5MB8	5.0	4590-6780	8	---	X10	S5	525	Triode Sect.
5MB8	5.0	4510-2030	12	---	X10	S5	450	Pent. Sect.
5MO8	5.0	4520-6370	10	---	X10	S5	600	Triode Sect.
5MO8	5.0	4590-1080	10	---	X10	S5	650	Plate No. 1
5R4	5.0	8200-6000	0	20	SH	S3	650	Plate No. 2
5R4	5.0	8200-6000	0	15	SH	S3	175	Triode Sect.
5R4	5.0	4590-4076	15	---	X4	S5	400	
5T8	5.0	4500-6273	0	78	SH	S1	400	Triode No. 3
5T8	5.0	4500-1078	0	78	SH	S1	400	Triode No. 1
5T8	5.0	8200-6000	0	35	SH	S3	650	Plate No. 2
5U4	5.0	8200-6000	0	30	SH	S3	475	Pent. Sect.
5U4	5.0	4520-6370	12	---	X4	S5	525	Triode Sect.
5U8	5.0	4590-1080	10	---	X10	S5	375	Triode Sect.
5U9†	6.3	5630-7824	14	---	X10	S5	300	Triode Sect.
5U9†	6.3	56A0-9010	30	---	X10	S5		

TUBE TYPE	FL	SELECTIONS	MASS	SHUNT	MULT	PRESS	NUMERICAL MUT COND	NOTATIONS
5V3	6.3	8200-6000	0	45	SH	S3	650	Plate No. 1
5V3	6.3	8200-4000	0	38	SH	S3	650	Plate No. 2
5V4	5.0	8200-6400	0	60	SH	S3	575	
5V6	5.0	7250-3480	18	---	X4	S5	700	
5V9†	5.0	5630-7412	15	---	X1	---		
5V9	5.0	5680-A090	23	---	X4	S5	650	Triode Sect.
5V8	5.0	4570-9861	10	---	X4	S5	725	Pent. Sect.
5X8	5.0	4520-3061	15	---	X10	S5	350	Triode Sect.
5 9†	6.3	5630-7824	15	---	X10	S5	375	Triode Sect.
5X9	6.3	56A0-9010	14	---	X4	S5	750	Triode Sect.
5Y3	5.0	8200-6000	0	36	SH	S3	400	Plate No. 1
5Y3	5.0	8200-4000	0	27	SH	S3	400	Plate No. 2
5Y3	5.0	4360-1070	14	---	X4	S5	625	
5AB4	6.3	5690-78A0	16	---	X10	S5	375	Triode No. 1, 10†
5AB9†	6.3	5630-1240	16	---	X10	S5	375	Triode No. 2
5AB9	6.3	7240-8653	13	---	X10	S5	375	
5AC7	6.3	1090-BAB7	11	---	X10	S5	450	Pent. Sect.
5AC9†	6.3	1090-3040	0	87	SH	S1	400	Triode No. 1
5AC9	6.3	1090-2030	11	---	X10	S5	450	Triode No. 2
5AC10†	6.3	1090-A040	11	---	X10	S5	450	Triode No. 1
5AC10	6.3	1078-5263	17	---	X10	S5	450	Pent. No. 1
5AD10†	6.3	1030-7625	17	---	X2	S5	450	Pent. No. 2
5AD10	6.3	1080-BA90	10	---	X10	S5	450	
5AF3	6.3	4500-2000	0	50	SH	S3	600	
5AF4	6.3	4320-1050	16	---	X10	S4	400	
5AF9†	6.3	5680-A970	16	---	X10	S5	550	Pent. No. 1, 10†
5AF9	6.3	5610-4320	12	---	X10	S5	450	Pent. No. 2
5AF11†	6.3	1080-2A90	12	---	X10	S5	450	Pent. Sect.
5AF11	6.3	1060-8050	14	---	X4	S5	700	Triode No. 1
5AF11	6.3	1030-4070	11	---	X4	S5	600	Triode No. 2
5AG7	6.3	4310-5620	10	---	X4	S5	625	
5AG7	6.3	7240-9661	12	---	X10	S5	475	
5AG9†	6.3	1080-2A94	14	---	X10	S5	625	Pent. Sect.
5AG9	6.3	1030-7060	19	---	X4	S5	725	Triode Sect.
5AG11†	6.3	1085-7694	12	---	X10	S5	525	Triode No. 1
5AG11	6.3	1000-A382	15	---	SH	S1	400	Triode No. 2
5AG11	6.3	1050-8879	0	80	SH	S5	750	Pent. Sect.
5AH9†	6.3	1020-3040	29	---	X10	S5	625	Triode Sect.
5AH9	6.3	4310-5620	10	---	X4	S5	625	
5AK5	6.3	4310-5672	17	---	X4	S5	725	
5AK6	6.3	1080-5970	35	---	X4	S5	850	
5AK9†	6.3	10A0-B070	17	---	X4	S5	575	Triode No. 1
5AK9	6.3	1030-2070	30	---	X2	S5	625	Triode No. 2
5AK10†	6.3	1090-A040	17	---	X4	S5	725	Triode No. 1
5AK10	6.3	1070-5060	17	---	X4	S5	725	Triode No. 2
5AK10	6.3	1080-2030	17	---	X4	S5	800	Triode No. 3
5AL3	6.3	4500-9020	0	56	SH	S3	800	
5AL5	6.3	4300-7215	0	78	SH	S1	400	Triode No. 1

TUBE TYPE	FL	SELECTIONS	MAS	SHUNT	MULT	PRESS	MINIMUM WATT CONG	NOTATIONS
6AL9†	6.3	1C80-2A94	5	---	X10	S5	690	Pent. Sect.
6AL9	6.3	1C50-7060	14	---	X10	S5	395	Triode Sect.
6AL11†	6.3	1C80-BA90	19	---	X10	S5	400	Pent. No. 1
6AL11	6.3	1C30-6724	22	---	X2	S5	300	Pent. No. 2
6AM5	6.3	4520-5720	26	---	X4	S5	400	Pent. Sect.
6AM5	6.3	4520-6319	10	---	X4	S5	560	Diode Sect.
6AM8	6.3	4500-8070	0	78	SH	S1	476	
6AN4	6.3	4320-1050	13	---	X10	S5	425	
6AN5	6.3	4310-5670	7	---	X10	S5	425	
6AN8	6.3	4580-6791	10	---	X4	S5	700	
6AN8	6.3	4520-1738	24	---	X4	S5	525	
6A05	6.3	4310-5620	18	---	X4	S5	575	
6AR11†	6.3	1C40-89B7	5	---	X10	S5	650	Pent. No. 1
6AR11	6.3	1C80-2864	5	---	X10	S5	660	Pent. No. 2
6AS6	6.3	4310-5627	5	---	X2	S5	550	
6AS7	7.5	7841-5263	55	---	X4	S4	625	IDual Triode
6AS8	6.3	4520-9137	10	---	X4	S5	700	Pent. Sect.
6AS8	6.3	4000-5087	15	78	SH	S1	400	Pent. Sect.
6AS11†	6.3	1C80-2A90	11	---	X10	S5	325	Pent. Sect.
6AS11	6.3	1C80-8050	16	---	X10	S5	500	Triode No. 1
6AT6	6.3	4310-7020	15	---	X4	S5	600	Triode No. 2
6AT6	6.3	4300-6520	0	30	SH	S1	175	Triode Sect.
6AT8	6.3	4590-6738	10	---	X4	S5	400	IDual Diode
6AT8	6.3	4510-2038	15	---	X10	S5	725	Pent. Sect.
6AU4	6.3	7800-5030	0	58	SH	S3	350	Triode Sect.
6AU5	6.3	7210-5830	18	---	X10	S4	350	
6AU6	6.3	4310-5672	10	---	X4	S5	475	
6AU8	6.3	4570-9860	10	---	X10	S5	375	Pent. Sect.
6AV8	6.3	4520-3010	13	---	X10	S5	300	Triode Sect.
6AV8	6.3	4310-7026	14	---	X4	S5	200	Triode Sect.
6AV6	6.3	4300-8527	0	30	SH	S1	400	IDual Diode
6AV11†	6.3	1C97-4546	23	---	X2	S5	750	Triode No. 3
6AV11	6.3	1C80-2030	14	---	X10	S5	475	Pent. Sect.
6AW8	6.3	4570-9863	13	---	X10	S5	250	Triode Sect.
6AX3†	6.3	4520-3019	13	---	X10	S5	650	
6AX4	6.3	1C00-4070	0	40	SH	S3	650	
6AX4	6.3	7800-5030	0	40	SH	S3	400	IDual Diode
6AX5	6.3	7200-5380	0	40	SH	S3	400	
6AY3†	6.3	4500-2090	0	52	SH	S3	650	
Model 752A:	No Adapter	Required.						
6AY11†	6.3	1C85-7694	13	---	X1	S5	650	Triode Sect.
6AY11	6.3	1C00-A382	0	78	SH	S1	400	IDiode Sect.
6AZ8	6.3	4560-1230	10	---	X4	S5	625	Pent. Sect.
6AZ8	6.3	4590-8070	24	---	X4	S5	500	Triode Sect.
6B10†	6.3	1C53-6472	23	---	X4	S5	475	IDual Triode
6B10	6.3	1C00-A890	0	73	SH	S1	400	IDual Diode
6BAC3†	6.3	4500-2080	0	57	SH	S3	650	
Model 752A:	No Adapter	Required.						
6BA5	6.3	3610-5780	18	---	X4	S5	325	
6BA6	6.3	4310-5672	0	---	X4	S5	500	

TUBE TYPE	FL	SELECTIONS	MAS	SHUNT	MULT	PRESS	MINIMUM WATT CONG	NOTATIONS
6BA7	6.3	4570-9132	0	---	X2	S5	225	APPL. SECT. WITH REVERSE BIAS PRESS IN
6BA7	6.3	4620-1037	16	---	X10	S5	500	Osc. Sect.
6BA8	6.3	4570-9860	10	---	X10	S5	375	Pent. Sect.
6BA8	6.3	4520-3010	29	---	X4	S5	425	Triode Sect.
6BA11†	6.3	1C40-8387	10	---	X1	S5	325	Pent. No. 1
6BA11	6.3	1C40-2385	10	---	X1	S5	325	Pent. No. 2
6BA11	6.3	1C90-80A0	30	---	X2	S5	550	Triode Sect.
6BC4	6.3	4520-1050	14	---	X20	S5	300	
6BC5	6.3	4310-5620	11	---	X4	S5	575	
6BC7	6.3	4500-8697	0	82	SH	S1	400	IDual Diode
6BC7	6.3	4500-2010	0	82	SH	S1	400	Diode No. 3
6BC8	6.3	4572-6183	18	---	X10	S5	375	IDual Triode
6BD4	6.3	7200-5010	0	25	SH	S1	400	Cap-P
6BD11†	6.3	1C80-2A90	15	---	X10	S5	490	Pent. Sect.
6BD11	6.3	1C60-B050	14	---	X4	S5	800	Triode No. 1
6BD11	6.3	1C30-4070	14	---	X4	S5	700	Triode No. 2
6BE3†	6.3	1C00-A070	0	58	SH	S3	650	
6BE6	6.3	4370-5621	0	---	X2	S5	250	APPL. SECT. WITH REVERSE BIAS PRESS IN
6BE6	6.3	4310-8027	20	---	X10	S5	400	Osc. Sect.
6BF11†	6.3	1C80-BA90	30	---	X10	S5	375	Pent. No. 1
6BF11	6.3	1C30-7625	17	---	X2	S5	200	Pent. No. 2
6BH3†	6.3	4500-2090	0	52	SH	S3	650	
Model 752A:	No Adapter	Required.						
6BH6	6.3	4310-5627	10	---	X4	S5	425	
6BH8	6.3	4570-9860	8	---	X10	S5	375	Pent. Sect.
6BH8	6.3	4520-3010	26	---	X4	S5	500	Triode Sect.
6BH11†	6.3	1C80-A880	10	---	X10	S5	350	Pent. Sect.
6BH11	6.3	1C64-7352	15	---	X10	S5	550	IDual Triode
6BJ3†	6.3	1C00-A070	0	60	SH	S3	650	
6BJ7	6.3	4500-8697	0	80	SH	S1	400	IDual Diode
6BJ7	6.3	4500-2013	0	80	SH	S1	400	Diode No. 3
6BJ8	6.3	4580-7090	28	---	X4	S5	425	Triode Sect.
6BJ8	6.3	4500-6132	0	78	SH	S1	400	IDual Diode
6BK4	6.3	7200-5010	0	65	SH	S1	500	Cap-G
6BK7	6.3	4572-6183	10	---	X10	S5	525	IDual Triode
6BK11†	6.3	1C90-A040	21	---	X2	S5	250	Triode No. 1
6BK11	6.3	1C78-5263	20	---	X2	S5	200	IDual Triode
6BL7	6.3	7841-6263	23	---	X10	S5	425	Pent. Sect.
6BL8	6.3	4520-6371	12	---	X4	S5	625	Triode Sect.
6BL8	6.3	4590-1086	26	---	X4	S5	675	Triode Sect.
6BM8	6.3	4530-6720	26	---	X4	S5	625	Pent. Sect.
6BM8	6.3	4510-9080	0	---	X2	S5	775	Triode Sect.
6BN4	6.3	4320-5010	16	---	X10	S5	425	
6BN4A	6.3	4320-5010	16	---	X10	S5	500	
6BN6	6.3	4320-7516	0	---	X1	S5	500	Limiter Grid
6BN6	6.3	4360-7512	0	---	X1	S5	525	Triode Sect.
6BN8	6.3	4580-7090	15	---	X4	S5	400	Triode Sect.
6BN8	6.3	4500-6132	0	78	SH	S1	400	IDual Diode
6BN11†	6.3	1C70-B98A	10	---	X10	S5	475	Pent. No. 1
6BN11	6.3	1C30-5426	10	---	X10	S5	475	Pent. No. 2
6BQ5	6.3	4520-7930	14	---	X10	S5	475	

TUBE TYPE	FL.	SELECTIONS	MAS	SHUNT	MULTI	PRESS	MAXIMUM MUT GAIN	NOTATIONS
6BQ6	6.3	7250-0480	28	---	X10	S4	350	Cap-P
6BQ7A	6.3	4572-6183	15	---	X10	S5	400	Dual Triode
6BR8	6.3	4590-6780	12	---	X4	S5	475	Pent. Sect.
6BS3t	6.3	4510-2030	10	---	X10	S5	525	Triode Sect.
Model 752A:	No Adapter Required.		60	---	SH	S3	400	SEE ADAPTER SA-4, 100-114
6BU8	6.3	4570-8219	0	---	X2	---	175	REPT. NO. 1, HOLD DOWN STRAP PRESS IN PENT. NO. 3, HOLD DOWN STRAP PRESS IN PENT. NO. 1
6BU8	6.3	4570-3216	0	---	X2	---	175	
6BV11t	6.3	1C70-A988	13	---	X4	S5	400	Pent. No. 2
6BV11t	6.3	1C60-3452	13	---	X4	S5	400	
6BW3t	6.3	1C00-4070	0	49	SH	S3	650	Pent. Sect.
6BW8	6.3	4560-9870	12	---	X4	S5	475	
6BW8	6.3	4500-3120	0	78	SH	S1	475	Dual Diode
6BW11t	6.3	1C80-B947	13	---	X10	S5	400	Pent. No. 1
6BW11t	6.3	1C30-5425	10	---	X10	S5	600	Pent. No. 2
6BY6	6.3	4310-5627	12	---	X2	S5	375	Grid No. 1
6BY6	6.3	4370-5621	16	---	X2	---	150	AND NO. 3 HOLD DOWN STRAP PRESS IN PENT. NO. 1
6BY8	6.3	4510-7892	10	---	X4	S5	475	Pent. Sect.
6BY8	6.3	4500-6030	0	78	SH	S1	400	Diode Sect.
6BY11t	6.3	1C80-B490	45	---	X4	S5	630	Pent. No. 1
6BZ3t	6.3	1C30-7625	15	---	X2	S5	350	Pent. No. 2
6BZ3t	6.3	1C00-A070	0	77	SH	S3	400	
6BZ6	6.3	4310-5627	10	---	X4	S5	700	Dual Triode
6BZ7	6.3	4572-6183	17	---	X10	S5	425	Triode No. 1
8C4	6.3	4360-1070	25	---	X2	S5	675	
6C9t	6.3	4570-8860	16	---	X4	S5	700	Tetrode No. 2
6C9t	6.3	4510-32A0	15	---	X4	S5	700	
6C10t	6.3	1C97-A546	14	---	X4	S5	200	Dual Triode
6C10t	6.3	1C80-2030	14	---	X4	S5	200	Triode No. 3
6CA4	6.3	4500-7130	0	42	SH	S3	500	Dual Diode
6CA5	6.3	3420-7610	0	---	X10	S5	425	
6CA7	6.3	7250-3481	23	---	X10	S5	375	
6CA11t	6.3	1C80-B497	22	---	X4	S5	750	Pent. Sect.
6CA11t	6.3	1C60-4050	14	---	X4	S5	750	Triode No. 1
6CA11	6.3	1C30-2070	14	---	X4	S5	700	Triode No. 2
6CB5	7.5	7240-0130	40	---	X10	S5	425	Cap-P
6CB6	6.3	4310-5627	10	---	X4	S5	700	
6CB3t	6.3	1C00-A070	0	63	SH	S3	650	
6CD6	6.3	7250-0830	29	---	X10	S4	375	Cap-P
6CE3t	6.3	1C00-4070	0	65	SH	S3	650	
6CE5	6.3	4310-5620	10	---	SH	S5	700	
6CG3t	6.3	1C00-4070	0	78	SH	S3	400	Dual Triode
6CG7	6.3	4572-6183	23	---	X4	S5	400	Pent. Sect.
6CG8	6.3	4590-6780	10	---	X4	S5	725	Triode Sect.
6CG8	6.3	4510-2030	15	---	X10	S5	350	
6CH3t	6.3	4500-2090	0	66	SH	S3	650	SEE ADAPTER SA-4, 100-114
Model 752A:	No Adapter Required.							
6CJ3t	6.3	4500-2090	0	78	SH	S3	400	SEE ADAPTER SA-4, 100-114
Model 752A:	No Adapter Required.							
6CK3t	6.3	4500-2090	0	83	SH	S1	650	SEE ADAPTER SA-4, 100-114
Model 752A:	No Adapter Required.							
6CK4	6.3	7210-5080	48	---	X4	S5	850	SEE ADAPTER SA-4, 100-114
6CL3t	6.3	4500-2090	0	83	SH	S1	650	
Model 752A:	No Adapter Required.							
6CL5	6.3	7240-0130	46	---	X4	S5	725	Cap-P
6CL6	6.3	4520-6317	12	---	X10	S5	475	Tetrode Sect.
6CL8	6.3	4590-6780	10	---	X4	S5	550	Triode Sect.
6CL8	6.3	4510-2030	12	---	X10	S5	425	
6CL3t	6.3	4500-2790	0	64	SH	S3	650	SEE ADAPTER SA-4, 100-114
Model 752A:	No Adapter Required.							
6CM6	6.3	4530-9170	18	---	X4	S5	575	Triode No. 1
6CM7	6.3	4570-6030	27	---	X4	S5	300	Triode No. 2
6CM7	6.3	4580-1090	23	---	X10	S5	275	Triode Sect.
6CN7	6.3	4570-8060	15	---	X4	S5	175	
6CN7	6.3	4500-2130	0	78	SH	S1	400	Dual Diode
6CQ4	6.3	8700-5030	0	49	SH	S3	650	
6CQ8	6.3	4520-6370	10	---	X4	S5	525	Tetrode Sect.
6CQ8	6.3	4580-1080	11	---	X10	S5	425	Triode Sect.
6CS6	6.3	4310-5627	16	---	X1	S5	300	Grid No. 1
6CS6	6.3	4370-5621	0	---	X1	S5	775	Grid No. 3
6CS7	6.3	4570-6080	22	---	X4	S5	350	Triode No. 1
6CS7	6.3	4530-1090	26	---	X10	S5	275	Triode No. 2
6CT3	6.3	4500-2090	0	45	SH	S3	750	
6CU5	6.3	4320-7610	22	---	X10	---	375	SEE ADAPTER SA-4, 100-114
6CU8	6.3	4570-2361	10	---	X4	S5	700	Pent. Sect.
6CU8	6.3	4580-9010	24	---	X4	S5	500	Triode Sect.
6CW4t	6.3	3140-2080	10	---	X10	S4	575	
Model 752A:								
6CW4	6.3	AC40-2080	10	---	X10	S4	575	
6CW5	6.3	4520-7930	18	---	X10	S5	475	Pent. Sect.
6CX8	6.3	4570-9860	11	---	X10	S5	400	Triode Sect.
6CX8	6.3	4520-3010	13	---	X4	S5	675	SEE ADAPTER SA-4, 100-114
6CY5	6.3	4310-5620	12	---	X4	---	625	
6CY7	6.3	4570-6080	13	---	X4	S8	200	Triode No. 1
6CY7	6.3	4520-1090	60	---	X4	S5	625	Triode No. 2
6CZ5	6.3	4530-9170	10	---	X4	S5	700	
6D8	6.3	6100-2364	17	---	X2	S5	500	Cap-G
6D10t	6.3	1C97-A546	15	---	X4	S5	500	Dual Triode
6D10	6.3	1C90-2030	15	---	X4	S5	500	Triode No. 3
6DA4	6.3	7800-5030	0	40	SH	S3	650	
6DA5	6.3	4510-9020	Var 100	---	SH	S6	---	Connect a 1 megohm resistor from Plate Jack to octal Test Socket Pin No. 7.
Var 100	6.3	4530-9120	25	---	X10	---	375	SEE ADAPTER SA-4, 100-114
6DB5	6.3	4310-5627	10	---	X4	S5	625	Triode No. 1
6DE6	6.3	7800-5030	0	49	SH	S3	650	Triode No. 2
6DE6	6.3	4310-5627	10	---	X4	S5	700	
6DE7	6.3	4570-6080	30	---	X2	S5	625	Triode No. 1
6DE7	6.3	4520-1090	55	---	X4	S5	775	Triode No. 2
6DG6	6.3	7250-3480	25	---	X10	---	375	SEE ADAPTER SA-4, 100-114
6DJ8	6.3	4572-6183	20	---	X10	S5	775	Dual Triode

TUBE TYPE	FL	SELECTIONS	BIAS	SHUNT	MULT	PRESS	NUMERICAL MUT COND	NOTATIONS
6KM8	6.3	4570-9860	5	---	X1	---	650	TRIODE PLATE NO. 1 HOLD DOWN SI AND PRESS S1
6KM8	6.3	4570-2860	5	---	X1	---	650	TRIODE PLATE NO. 2 HOLD DOWN SI AND PRESS S1
6KM8	6.3	4570-1860	5	---	X1	---	650	TRIODE PLATE NO. 3 HOLD DOWN SI AND PRESS S1
6KMB	6.3	4500-3060	0	36	SH	S1	400	DIODE SECT.
6KN6t	6.3	1C50-0324	68	---	X4	S5	500	Cap-P
6KR8	6.3	4570-9860	14	---	X10	S5	475	Pent. Sect.
6KR8	6.3	4520-3010	11	---	X10	S5	500	Triode Sect.
6KS6	6.3	4320-7516	0	---	X1	S5	500	LIMITER AND CANDIDATE AND
6KS6	6.3	4360-7512	0	---	X1	S5	525	
6KT6	6.3	4520-7819	9	---	X10	S5	750	Pent. Sect.
6KT8	6.3	4570-9860	10	---	X10	S5	450	Triode Sect.
6KT8	6.3	4520-3010	20	---	X2	S5	475	Pent. Sect.
6KUB	6.3	4570-9860	15	---	S5	S5	600	Pent. Sect. 1
6KUB	6.3	4500-3010	0	30	SH	S1	400	Diode No. 1
6KUB	6.3	4500-2010	0	30	SH	S1	400	Diode No. 2
6KV6t	6.3	4520-9736	65	---	X4	S5	760	USE ADAPTER SA-4, 100-144
Model 752A:	No Adapter	Required.						
6KV8	6.3	4570-9860	15	---	X20	S5	425	Pent. Sect.
6KV8	6.3	4520-3010	15	---	X4	S5	550	Triode Sect.
6KV8	6.3	4591-7382	14	---	X4	S5	200	IDUAL Triode
6KX8	6.3	4520-7813	13	---	X20	S5	475	
6KY6	6.3	4520-6730	42	---	X10	S5	325	TRI. SECT. USE ADAPTER SA-4, 100-144
6KY8t	6.3	4590-8010	18	---	X4	S5	200	Triode Sect.
Model 752A:	No Adapter	Required.						
6KZ8	6.3	4520-6730	14	---	X4	S5	625	Pent. Sect.
6KZ8	6.3	4590-1080	18	---	X10	S5	400	Triode Sect.
6L6	6.3	7250-3481	17	---	X10	S5	300	
6LB6t	6.3	1C50-0324	33	---	X10	S4	790	Cap-P
6LB8	6.3	4570-9860	16	---	X10	S5	550	Pent. Sect.
6LB8	6.3	4520-3010	17	---	X10	S5	380	Triode Sect.
6L06	6.3	2700-5601	0	50	SH	S1	300	Cap-G
6L08	6.3	4560-9873	14	---	X2	S5	625	Pent. Sect.
6L08	6.3	4520-1030	19	---	X2	S5	625	Triode Sect.
6L08	6.3	4520-7819	13	---	X10	S5	840	
6LD6	6.3	4590-6837	12	---	X2	S5	450	Pent. No. 1
6LE8	6.3	4590-1832	12	---	X2	S5	450	Pent. No. 2
6LE8	6.3	1C50-0324	77	---	X4	S5	750	Cap-P
6LE8	6.3	4570-9860	11	---	X10	S5	475	Pent. Sect.
6LE8	6.3	4520-3010	16	---	X4	S5	500	Triode Sect.
6LG6t	6.3	1C50-0840	73	---	X10	S5	420	Cap-P
6LH6	6.3	2700-5061	0	50	SH	S1	500	Cap-G
6LH6	6.3	2700-5063	0	50	SH	S1	500	Cap-G
6LJ6	6.3	4590-6780	10	---	X10	S5	625	Pent. Sect.
6LJ8	6.3	4510-2030	10	---	X10	S5	500	Triode Sect.
6LM8	6.3	4520-6370	15	---	X4	S5	550	Pent. Sect.
6LM8	6.3	4590-1080	17	---	X10	S5	450	Triode Sect.
6LN8	6.3	4520-6371	12	---	X4	S5	625	Pent. Sect.
6LN8	6.3	4590-1086	26	---	X4	S5	675	Triode Sect.

TUBE TYPE	FL	SELECTIONS	MASS	SHUNT	WALT	PRESS	MECHANICAL	NOTATIONS
6M08	6.3	4520-6370	10	---	X10	S5	450	Pent. Sect.
6M08	6.3	4590-1090	10	---	X10	S5	600	Triode Sect.
6M08	6.3	4520-6370	15	---	X10	S5	460	Pent. Sect.
6M08	6.3	4590-1080	15	---	X10	S5	440	Triode Sect.
6M08	6.3	4570-9860	15	---	X4	S5	700	Pent. Sect.
6M08	6.3	4520-3010	15	---	X4	S5	440	Triode Sect.
6M08	6.3	1060-4890	40	---	X10	S5	350	Pent. Sect.
6M08	6.3	1060-2080	21	---	X4	S5	350	Triode Sect.
6Q11	6.3	1090-4048	25	---	X2	S5	675	Triode No. 1
6Q11	6.3	1078-5263	14	---	X4	S5	200	Triode Triode
6R4	6.3	4510-8030	28	---	X4	S5	625	Triode Triode
6S4	6.3	4560-9020	21	---	X4	S5	700	Triode Triode
6SN7	6.3	7841-5263	23	---	X4	S5	400	Triode Triode
6T4	6.3	4320-1050	16	---	X10	S4	175	Triode Sect.
6T8	6.3	4500-6273	0	78	SH	S1	400	Triode Diode
6T8	6.3	4500-1078	0	78	SH	S1	400	Triode No. 3
6T9	6.3	1080-8A90	12	---	X10	S5	450	Pent. Sect.
6T9	6.3	1040-2050	16	---	X4	S5	200	Triode Sect.
6T10	6.3	1080-8A90	20	---	X10	S5	375	Pent. No. 1
6T10	6.3	1030-7625	15	---	X2	S5	200	Pent. No. 2
6U8	6.3	4520-6370	12	---	X4	S5	475	Pent. Sect.
6U8	6.3	4590-1080	10	---	X10	S5	525	Triode Sect.
6U9	6.3	5630-7824	14	---	X10	S5	375	Pent. Sect.
6U9	6.3	5640-9010	30	---	X10	S5	300	Triode Sect.
6U10	6.3	1098-A243	27	---	X2	S5	625	Triode No. 1 and 2
6U10	6.3	1070-5060	20	---	X2	S5	175	Triode No. 2
6V3	6.3	4500-0000	Use This Setting For Short	---	SH	S5	650	Check Only.
6V3	6.3	4500-0020	0	60	SH	S5	650	Check Only.
Model 752A:	6.3	4500-2000	0	60	SH	S3	650	Cap - K
6V3	6.3	7850-3400	46	---	X4	S5	650	Cap - K
6V5	6.3	7250-3481	18	---	X4	S5	675	Cap - K
6V8	6.3	5630-7412	15	---	X1	---	700	Cap - K
6V9	6.3	5680-A090	23	---	X4	S5	650	Cap - K
6W4	6.3	7800-5030	0	60	SH	S3	650	Cap - K
6W6	6.3	7250-3480	25	---	X10	---	375	Cap - K
6X4	6.3	4300-6170	0	18	SH	S3	650	Cap - K
6X5	6.3	7200-5381	0	20	SH	S3	650	Cap - K
6X6	6.3	2753-4086	100	100	SH	S5	---	Cap - K
6X6	6.3	2750-4386	100	100	SH	S5	---	Cap - K
6X8	6.3	4570-9861	10	---	X4	S5	725	Cap - K
6X8	6.3	4520-3061	15	---	X10	S5	350	Cap - K
6X9	6.3	5630-7824	15	---	X10	S5	375	Cap - K
6X9	6.3	5640-9010	14	---	X4	S5	750	Cap - K
6Y9	6.3	5680-A970	16	---	X10	S5	650	Cap - K
6Y9	6.3	5610-4320	12	---	X10	S5	450	Cap - K
6Y10	6.3	1080-8A90	21	---	X4	S5	750	Cap - K
6Y10	6.3	1030-7625	13	---	X2	S5	575	Cap - K
6Z4	6.3	1000-3720	13	---	X2	S5	575	Cap - K

TUBE TYPE	FL	SELECTIONS	MASS	SHUNT	WALT	PRESS	MECHANICAL	NOTATIONS
6Z5	6.3	1600-5040	0	30	SH	S3	650	Plate No. 1
6Z5	6.3	2100-3040	0	30	SH	S3	650	Plate No. 2
6Z10	6.3	1070-4685	0	---	X1	S5	500	Pent. No. 1
6Z10	6.3	1080-9230	20	---	X10	S5	375	Pent. No. 2
7A07	6.3	4572-6183	25	---	X2	S5	675	Triode Triode
7A07	6.3	4572-6183	20	---	X10	S5	775	Triode Triode
7A08	6.3	4572-6183	20	---	X4	S5	675	Triode Triode
7EY6	7.5	7250-3480	29	---	X10	S5	475	Triode Sect.
7H08	7.5	4520-8390	11	---	X10	S5	350	Triode Sect.
7H08	7.5	4560-7030	33	---	X20	S5	475	Triode Sect.
7KY6	7.5	4520-7813	13	---	X10	S5	825	Triode Sect.
7KZ6	7.5	4520-7813	13	---	X10	S5	825	Triode Sect.
8AC9	7.5	1090-8A87	11	---	X10	S5	450	Triode Sect.
8AC9	7.5	1000-3040	0	87	SH	S1	400	Triode No. 1
8AC9	7.5	1000-2030	0	87	SH	S1	400	Triode No. 2
8AC10	10.0	1090-A040	11	---	X4	S5	650	Triode No. 1
8AC10	10.0	1078-5263	11	---	X4	S5	650	Triode No. 1
8AL9	7.5	1080-2A94	5	---	X10	S5	690	Triode Sect.
8AL9	7.5	1050-7060	14	---	X10	S5	395	Triode Sect.
8AR11	7.5	1040-8987	6	---	X10	S5	550	Pent. No. 1
8AR11	7.5	1050-2364	5	---	X10	S5	550	Pent. No. 2
8A08	7.5	4570-9860	10	---	X10	S5	375	Pent. Sect.
8A08	7.5	4520-3010	13	---	X2	S5	300	Triode Sect.
8AV11	7.5	1097-A546	23	---	X2	S5	750	Triode No. 1 and 2
8AV11	7.5	1080-2030	23	---	X2	S5	750	Triode No. 3
8AW8A	7.5	4570-9863	14	---	X10	S5	475	Pent. Sect.
8AW8A	7.5	4520-3019	13	---	X10	S5	250	Triode Sect.
8B10	10.0	1053-6472	24	---	X2	S5	600	Triode Sect.
8B10	10.0	1000-A690	0	70	SH	S1	400	Triode Sect.
8B8A	7.5	4570-9860	10	---	X10	S5	375	Pent. Sect.
8B8A	7.5	4520-3010	29	---	X4	S5	425	Triode Sect.
8BA11	7.5	1040-6387	10	---	X1	S5	325	Pent. No. 1
8BA11	7.5	1040-2385	10	---	X1	S5	325	Pent. No. 2
8BA11	7.5	1090-8040	30	---	X2	S5	550	Triode Sect.
8BH8	7.5	4570-9860	8	---	X10	S5	375	Pent. Sect.
8BH8	7.5	4520-3010	26	---	X4	S5	500	Triode Sect.
8BM11	7.5	1080-7948	10	---	X10	S5	400	Pent. No. 1
8BM11	7.5	1060-2354	12	---	X10	S5	350	Pent. No. 2
8BN8	7.5	4580-7090	15	---	X4	S5	400	Triode Sect.
8BN8	7.5	4500-6182	0	78	SH	S1	400	Triode Sect.
8BN11	10.0	1070-8984	10	---	X10	S5	625	Triode Sect.
8BN11	10.0	1030-5426	10	---	X10	S5	525	Triode Sect.
8BQ5	7.5	4520-7930	14	---	X10	S5	475	Triode Sect.
8BQ11	7.5	1040-8987	8	---	X10	S5	625	Pent. No. 1
8BQ11	7.5	1050-2364	8	---	X10	S5	625	Pent. No. 2
8BU11	7.5	1080-A980	10	---	X4	S5	700	Pent. Sect.
8BU11	7.5	1064-7352	16	---	X10	S5	450	Triode Sect.
8CB11	7.5	1040-8987	10	---	X10	S5	450	Triode Sect.
8CB11	7.5	1050-2364	10	---	X10	S5	450	Triode Sect.

TUBE TYPE	FL	SELECTIONS	WAS	SWMT	MULT	PRESS	NUMERICAL WRT COND	NOTATIONS	TUBE TYPE	FL	SELECTIONS	WAS	SWMT	MULT	PRESS	NUMERICAL WRT COND	NOTATIONS
{BCM7	7.5	4570-6030	27	—	X4	S5	300	Triode No. 1	{9EA8	10.0	4520-6370	9	—	X4	S5	550	Pent. Sect.
{BCM7	7.5	4580-1090	23	—	X10	S5	275	Triode No. 2	{9EA8	10.0	4590-1080	10	—	X10	S5	525	Triode Sect.
{BCM7	7.5	4570-8060	15	—	X4	S5	325	Triode Sect.	{9GH8	10.0	4520-6370	11	—	X4	S5	625	Pent. Sect.
{BCN7	7.5	4500-2130	0	78	SH	S1	400	IXDual Diode	{9GH8	10.0	4590-1090	13	—	X10	S5	525	Triode Sect.
{BCS7	7.5	4570-6080	22	—	X4	S5	350	Triode No. 1	{9JW8	10.0	4520-6370	14	—	X4	S5	775	Pent. Sect.
{BCS7	7.5	4530-1090	26	—	X10	S5	275	Triode No. 2	{9JW8	10.0	4590-1090	13	—	X4	S5	550	Triode Sect.
{BCW5	7.5	4520-7930	16	—	X10	S5	475		{9KC6	7.5	4520-7916	10	—	X10	S5	550	
{BCX8	7.5	4570-9860	11	—	X10	S5	400	Pent. Sect.	{9KX6	7.5	4520-7813	11	—	X20	S5	475	
{BCX8	7.5	4520-3010	13	—	X4	S5	675	Triode Sect.	{9KZ8	10.0	4520-6730	14	—	X4	S5	625	Pent. Sect.
{BEB8	7.5	4570-9860	0	—	X10	S5	625	Pent. Sect.	{9KZ8	10.0	4590-1080	18	—	X10	S5	400	Triode Sect.
{BEB8	7.5	4520-3010	10	—	X2	S5	625	Triode Sect.	{9LA6	7.5	4520-7813	14	—	X10	S5	575	
{BEM5	7.5	4530-9170	16	—	X10	S5	325		{9ML8	10.0	4568-3270	15	—	X10	S5	470	IXDual Triode
{BET7	7.5	4570-9860	11	—	X10	S5	500	Pent. Sect.	{9ML8	10.0	4590-1070	15	—	X10	S5	470	Triode No. 3
{BET7	7.5	4500-3210	0	18	SH	S1	400	IXDual Diode	{9MNB	10.0	1C80-6030	21	—	X4	S5	650	Triode No. 1
{BET7	7.5	4572-6183	23	—	X4	S5	400	IXDual Triode	{9MNB	10.0	1CAB-4230	21	—	X4	S5	650	Triode No. 1
{BFQ7	7.5	4520-7813	10	—	X10	S5	575	Pent. Sect.	{9R-AL1	10.0	4570-6080	33	—	X2	S5	670	Triode No. 1
{BGN8	7.5	4570-9860	15	—	X10	S5	600	Triode Sect.	{9R-AL1	10.0	4530-1090	36	—	X4	S5	670	Triode No. 2
{BGN8	7.5	4520-3010	16	—	X2	S5	400	IXDual Triode	{9V9t	10.0	5630-7412	15	—	X1	—	700	Triode No. 2
{BGU7	7.5	4572-6183	33	—	X4	S5	400	Pent. Sect.	{9V9t	10.0	5680-A090	23	—	X4	S5	650	Triode Sect.
{BGX7	7.5	4520-6710	11	—	X10	S5	450	Pent. Sect.	{10AL11t	10.0	1C80-BA90	19	—	X10	S5	400	Pent. No. 1
{BGX7	7.5	4590-8010	16	—	X10	S5	600	Triode Sect.	{10AL11t	10.0	1C30-6724	22	—	X2	S5	300	Pent. No. 2
{BL8	7.5	4570-9860	14	—	X10	S5	500	Pent. Sect.	{10AL11	10.0	4520-7930	14	—	X10	S5	475	
{BL8	7.5	4520-3010	18	—	X4	S5	700	Triode Sect.	{10BQ5	10.0	4520-7930	14	—	X10	S5	475	
{BU8	7.5	4500-2839	0	78	SH	S1	400	IXDiode 1 and 3	{10CWS	10.0	4520-7930	18	—	X10	S5	475	
{BU8	7.5	4500-1728	0	78	SH	S1	400	IXDiode 2 and 4	{10DE7	10.0	4570-6080	30	—	X2	S5	625	Triode No. 1
{BU8	7.5	4570-9860	13	—	X10	S5	450	Pent. Sect.	{10DE7	10.0	4520-1090	55	—	X4	S5	775	Triode No. 2
{BU8	7.5	4520-3010	17	—	X4	S5	450	Triode Sect.	{10DR7	10.0	4570-6080	13	—	X2	S5	375	Triode No. 1
{BU8	7.5	1C90-A048	25	—	X2	S5	675	Triode No. 1	{10DR7	10.0	4520-1090	55	—	X4	S5	850	Triode No. 2
{BK11t	7.5	1C7B-5263	14	—	X4	S5	200	IXDual Triode	{10EG7	10.0	7840-5060	29	—	X2	S5	625	Triode No. 1
{BK11	7.5	4560-9837	14	—	X2	S5	625	Pent. Sect.	{10EG7	10.0	7810-2030	15	—	X10	S5	475	Triode No. 2
{BKAB	7.5	4520-1030	19	—	X2	S5	625	Triode Sect.	{10EG7	10.0	7840-5060	13	—	X2	S5	500	Triode No. 1
{BKAB	7.5	4570-9860	14	—	X10	S5	475	Pent. Sect.	{10EM7	10.0	7810-2030	60	—	X10	S5	425	Triode No. 2
{BKAB	7.5	4520-3010	11	—	X2	S5	825	Pent. Sect.	{10GF7t	10.0	4590-8010	20	—	X2	S5	250	Triode No. 1
{BKAB	7.5	4560-9837	14	—	X10	S5	440	Triode Sect.	{10GF7t	10.0	4520-6030	64	—	X10	S5	450	Triode No. 2
{BKAB	7.5	4520-1030	14	—	X10	S5	500	Triode Sect.	{10GF7	10.0	4520-6030	64	—	X10	S5	450	Triode No. 2
{BKAB	7.5	4520-3010	11	—	X2	S5	825	Pent. Sect.	{10GK6	10.0	4520-7813	10	—	X10	S5	575	Pent. Sect.
{BKAB	7.5	4560-9837	14	—	X2	S5	625	Triode Sect.	{10GK6	10.0	4570-9860	15	—	X10	S5	800	Triode Sect.
{BKAB	7.5	4520-1030	19	—	X10	S5	450	Pent. Sect.	{10GN8	10.0	4520-3010	16	—	X2	S5	450	Triode Sect.
{BKAB	7.5	4520-6370	15	—	X10	S5	440	Triode Sect.	{10GN8	10.0	4520-6370	36	—	X10	S5	375	Pent. Sect.
{BKAB	7.5	4520-6370	15	—	X10	S5	440	Triode Sect.	{10GV8	10.0	4520-1030	23	—	X2	S5	950	Triode Sect.
{BKAB	7.5	4520-6370	15	—	X10	S5	440	Triode Sect.	{10GV8	10.0	4520-1030	23	—	X2	S5	950	Triode Sect.
{BKAB	7.5	4520-6370	15	—	X10	S5	440	Triode Sect.	{10GV8	10.0	4520-1030	23	—	X2	S5	950	Triode Sect.
{BKAB	7.5	4520-6370	15	—	X10	S5	440	Triode Sect.	{10GV8	10.0	4520-1030	23	—	X2	S5	950	Triode Sect.
{BKAB	7.5	4520-6370	15	—	X10	S5	440	Triode Sect.	{10GV8	10.0	4520-1030	23	—	X2	S5	950	Triode Sect.
{BKAB	7.5	4520-6370	15	—	X10	S5	440	Triode Sect.	{10GV8	10.0	4520-1030	23	—	X2	S5	950	Triode Sect.
{BKAB	7.5	4520-6370	15	—	X10	S5	440	Triode Sect.	{10GV8	10.0	4520-1030	23	—	X2	S5	950	Triode Sect.
{BKAB	7.5	4520-6370	15	—	X10	S5	440	Triode Sect.	{10GV8	10.0	4520-1030	23	—	X2	S5	950	Triode Sect.
{BKAB	7.5	4520-6370	15	—	X10	S5	440	Triode Sect.	{10GV8	10.0	4520-1030	23	—	X2	S5	950	Triode Sect.
{BKAB	7.5	4520-6370	15	—	X10	S5	440	Triode Sect.	{10GV8	10.0	4520-1030	23	—	X2	S5	950	Triode Sect.
{BKAB	7.5	4520-6370	15	—	X10	S5	440	Triode Sect.	{10GV8	10.0	4520-1030	23	—	X2	S5	950	Triode Sect.
{BKAB	7.5	4520-6370	15	—	X10	S5	440	Triode Sect.	{10GV8	10.0	4520-1030	23	—	X2	S5	950	Triode Sect.
{BKAB	7.5	4520-6370	15	—	X10	S5	440	Triode Sect.	{10GV8	10.0	4520-1030	23	—	X2	S5	950	Triode Sect.
{BKAB	7.5	4520-6370	15	—	X10	S5	440	Triode Sect.	{10GV8	10.0	4520-1030	23	—	X2	S5	950	Triode Sect.
{BKAB	7.5	4520-6370	15	—	X10	S5	440	Triode Sect.	{10GV8	10.0	4520-1030	23	—	X2	S5	950	Triode Sect.
{BKAB	7.5	4520-6370	15	—	X10	S5	440	Triode Sect.	{10GV8	10.0	4520-1030	23	—	X2	S5	950	Triode Sect.
{BKAB	7.5	4520-6370	15	—	X10	S5	440	Triode Sect.	{10GV8	10.0	4520-1030	23	—	X2	S5	950	Triode Sect.
{BKAB	7.5	4520-6370	15	—	X10	S5	440	Triode Sect.	{10GV8	10.0	4520-1030	23	—	X2	S5	950	Triode Sect.
{BKAB	7.5	4520-6370	15	—	X10	S5	440	Triode Sect.	{10GV8	10.0	4520-1030	23	—	X2	S5	950	Triode Sect.
{BKAB	7.5	4520-6370	15	—	X10	S5	440	Triode Sect.	{10GV8	10.0	4520-1030	23	—	X2	S5	950	Triode Sect.
{BKAB	7.5	4520-6370	15	—	X10	S5	440	Triode Sect.	{10GV8	10.0	4520-1030	23	—	X2	S5	950	Triode Sect.
{BKAB	7.5	4520-6370	15	—	X10	S5	440	Triode Sect.	{10GV8	10.0	4520-1030	23	—	X2	S5	950	Triode Sect.
{BKAB	7.5	4520-6370	15	—	X10	S5	440	Triode Sect.	{10GV8	10.0	4520-1030	23	—	X2	S5	950	Triode Sect.
{BKAB	7.5	4520-6370	15	—	X10	S5	440	Triode Sect.	{10GV8	10.0	4520-1030	23	—	X2	S5	950	Triode Sect.
{BKAB	7.5	4520-6370	15	—	X10	S5	440	Triode Sect.	{10GV8	10.0	4520-1030	23	—	X2	S5	950	Triode Sect.
{BKAB	7.5	4520-6370	15	—	X10	S5	440	Triode Sect.	{10GV8	10.0	4520-1030	23	—	X2	S5	950	Triode Sect.
{BKAB	7.5	4520-6370	15	—	X10	S5	440	Triode Sect.	{10GV8	10.0	4520-1030	23	—	X2	S5	950	Triode Sect.
{BKAB	7.5	4520-6370	15	—	X10	S5	440	Triode Sect.	{10GV8	10.0	4520-1030	23	—	X2	S5	950	Triode Sect.
{BKAB	7.5	4520-6370	15	—	X10	S5	440	Triode Sect.	{10GV8	10.0	4520-1030	23	—	X2	S5	950	Triode Sect.
{BKAB	7.5	4520-6370	15	—	X10	S5	440	Triode Sect.	{10GV8	10.0	4520-1030	23	—	X2	S5	950	Triode Sect.
{BKAB	7.5	4520-6370	15	—	X10	S5	440	Triode Sect.	{10GV8	10.0	4520-1030	23	—	X2	S5	950	Triode Sect.
{BKAB	7.5	4520-6370	15	—	X10	S5	440	Triode Sect.	{10GV8	10.0	4520-1030	23	—	X2	S5	950	Triode Sect.
{BKAB	7.5	4520-6370	15	—	X10	S5	440	Triode Sect.	{10GV8	10.0	4520-1030	23	—	X2	S5	950	Triode Sect.
{BKAB	7.5	4520-6370	15	—	X10	S5	440	Triode Sect.	{10GV8	10.0	4520-1030	23	—	X2	S5	950	Triode Sect.
{BKAB	7.5	4520-6370	15	—	X10	S5	440	Triode Sect.	{10GV8	10.0	4520-1030	23	—	X2	S5	950	Triode Sect.
{BKAB	7.5	4520-6370	15	—	X10	S5	440	Triode Sect.	{10GV8	10.0	4520-1030	23	—	X2	S5	950	Triode Sect.
{BKAB	7.5	4520-6370	15	—	X10	S5	440	Triode Sect.	{10GV8	10.0	4520-1030	23	—	X2	S5	950	Triode Sect.
{BKAB	7.5	4520-6370	15	—	X10	S5	440	Triode Sect.	{10GV8	10.0	4520-1030	23	—	X2	S5	950	Triode Sect.
{BKAB	7.5	4520-6370	15	—	X10	S5	440	Triode Sect.	{10GV8	10.0	4520-1030	23	—	X2	S5	950	Triode Sect.
{BKAB	7.5	4520-6370	15	—	X10	S5	440	Triode Sect.	{10GV8	10.0	4520-1030	23	—	X2	S5	950	Triode Sect.
{BKAB	7.5	4520-6370	15	—	X10	S5	440	Triode Sect.	{10GV8	10.0	4520-1030	23	—	X2	S5	950	Triode Sect.
{BKAB	7.5	4520-6370	15	—	X10	S5	440	Triode Sect.	{10GV8	10.0	4520-1030	23	—	X2	S5	950	Triode Sect.

TIME TYPE	FL	SELECTIONS	WAS	SHUNT	MULT	PRESS	WUT	CHRG	NOTATIONS
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10KR8	10.0	4570-9860	14	---	X10	S5	475	Pent. Sect.
10KR8	10.0	4520-3010	11	---	X10	S5	500	Triode Sect.
10KR8	10.0	4570-9860	15	---	X10	S5	600	Pent. Sect.
10KUB	10.0	4500-3010	0	30	SH	S1	400	Diode No. 1
10KUB	10.0	4500-2010	0	30	SH	S1	400	Diode No. 2
10KUB	10.0	4570-9860	16	---	X10	S5	550	Pent. Sect.
10LB8	10.0	4520-3010	17	---	X10	S5	350	Triode Sect.
10LB8	10.0	4520-7819	13	---	X10	S5	840	Pent. Sect.
10LB8	10.0	4590-6837	12	---	X2	S5	450	Pent. No. 1
10LB8	10.0	4590-1832	12	---	X2	S5	450	Pent. No. 2
10LB8	10.0	4570-9860	15	---	X10	S5	600	Pent. Sect.
10LB8	10.0	4520-3010	16	---	X4	S5	350	Triode Sect.
10LW8	10.0	4520-3010	21	---	X10	S5	450	Pent. Sect.
10LY8	10.0	4570-9860	17	---	X2	S5	400	Triode Sect.
10LY8	10.0	4570-9860	11	---	X10	S5	375	Pent. Sect.
10LZ8	10.0	4520-3010	17	---	X4	S5	150	Triode Sect.
10T10t	10.0	1GB0-BA90	20	---	X10	S5	375	Pent. No. 1
10T10t	10.0	1C30-7625	15	---	X2	S5	200	Pent. No. 2
10T10t	10.0	1C70-4585	0	---	X10	S5	600	Pent. No. 1
10T10t	10.0	1GB0-9230	20	---	X10	S5	375	Pent. No. 2
10WP7	6.3	7230-5084	0	78	SH	S1	650	Triode Sect.
10WP7	6.3	7250-3064	0	84	SH	S6	---	Triode Sect.

11UE8	10.0	4570-9860	15	---	X10	S5	475	Pent. Sect.
11UE8	10.0	4520-3010	14	---	X4	S5	625	Triode Sect.
11KV8	10.0	4570-9860	15	---	X20	S5	450	Pent. Sect.
11KV8	10.0	4520-3010	15	---	X4	S5	550	Triode Sect.
11LO8	10.0	4570-9860	15	---	X20	S5	425	Pent. Sect.
11LO8	10.0	4520-3010	11	---	X10	S5	500	Triode Sect.
11LT8	12.6	4590-3216	13	---	X10	S5	375	Triode Sect.
11LT8	12.6	4500-6870	0	77	SH	S1	750	Triode Diode
11LY6	12.6	4520-7813	0	---	X10	S5	500	Pent. Sect.
11MS8	12.6	4590-6780	52	---	X4	S5	825	Triode Sect.
11MS8	12.6	4520-1030	24	---	X4	S5	650	Triode Sect.
11Y9t	10.0	5680-A970	16	---	X10	S5	650	Triode Sect.
11Y9t	10.0	5610-4320	12	---	X10	S5	450	Pent. No. 2
11Y9t	10.0	5610-4040	11	---	X10	S5	450	Triode No. 1
12AC10t	12.6	1C78-5263	11	---	X10	S5	450	Triode No. 1
12AC10t	12.6	1C80-BA90	25	---	X4	S5	425	Pent. No. 1
12AE10t	12.6	1C30-7625	23	---	X2	S5	250	Pent. No. 2
12AF3	12.6	4500-2000	0	44	SH	S3	650	Triode Sect.
12AL5	12.6	4300-7215	0	78	SH	S1	400	Triode Diode
12AL11t	12.6	1C80-BA90	19	---	X10	S5	400	Pent. No. 1
12AL11t	12.6	1C30-6724	22	---	X2	S5	300	Pent. No. 2
12AO5	12.6	4310-5620	18	---	X4	S5	575	Triode Sect.
12AT6	12.6	4310-7020	15	---	X4	S5	175	Triode Sect.
12AT6	12.6	4300-6527	0	30	SH	S1	400	Triode Diode
12AT7	12.6	4572-6183	14	---	X4	S5	625	Triode Diode
12AU6	12.6	4310-5672	10	---	X4	S5	475	Triode Sect.
12AU7	12.6	4572-6183	25	---	X2	S5	675	Triode Sect.
12AV5	12.6	7210-5830	28	---	X10	S4	350	Triode Sect.
12AV6	12.6	4310-7025	14	---	X4	S5	200	Triode Sect.
12AV6	12.6	4300-6527	0	30	SH	S1	400	Triode Diode
12AV6	12.6	4572-6183	10	---	X10	S5	525	Triode Diode
12AX3t	12.6	1C00-4070	0	40	SH	S3	650	Triode Diode
12AX7	12.6	4572-6183	14	---	X4	S5	200	Triode Diode
12AY3t	12.6	4500-2090	0	52	SH	S3	650	Triode Diode

Model 752A: No Adapter Required.

11AF9t	12.6	5680-A970	16	---	X10	S5	650	Triode Sect.
11AF9t	12.6	5610-4320	12	---	X10	S5	450	Triode Sect.
11AF9t	12.6	1CA0-8987	5	---	X10	S5	525	Triode Sect.
11AR1t	12.6	1C50-2384	5	---	X10	S5	525	Triode Sect.
11AR1t	12.6	1CA0-8987	10	---	X10	S5	350	Triode Sect.
11BQ1t	12.6	1C50-2364	10	---	X10	S5	375	Triode Sect.
11BQ1t	10.0	1C80-2A86	10	---	X20	S5	475	Triode Sect.
11BT1t	10.0	1C30-7060	12	---	X4	S5	750	Triode Sect.
11BT1t	10.0	1C30-9040	20	---	X4	S5	750	Triode Sect.
11BT1t	10.0	1C80-BA97	22	---	X4	S5	750	Triode Sect.
11CA1t	10.0	1C60-4050	14	---	X4	S5	750	Triode Sect.
11CA1t	10.0	1C30-2070	14	---	X4	S5	700	Triode Sect.
11CF1t	10.0	1C50-3460	10	---	X10	S5	825	Triode Sect.
11CF1t	10.0	1C90-A080	12	---	X10	S5	350	Triode Sect.
11CF1t	10.0	1C80-2070	13	---	X10	S5	400	Triode Sect.
11CY7	10.0	4570-6080	13	---	X4	S5	200	Triode Sect.
11CY7	10.0	4520-1090	60	---	X4	S5	625	Triode Sect.
11DS5	12.6	4310-5620	14	---	X10	S5	600	Triode Sect.
11FY7t	10.0	1CA0-B090	21	---	X2	S5	225	Triode Sect.
11FY7t	10.0	1C30-5070	59	---	X4	S5	475	Triode Sect.
11HM7	10.0	4520-7819	10	---	X20	S5	500	Triode Diode

12BA7	12.6	4570-9132	0	---	X2	S5	225	Triode Sect.
12BA7	12.6	4520-1037	16	---	X10	S5	500	Triode Sect.
12BD6	12.6	4310-5672	10	---	X4	S5	300	Triode Sect.
12BE3t	12.6	1C00-A070	0	58	SH	S3	650	Triode Sect.
12BE6	12.6	4370-5621	0	---	X2	S5	250	Triode Sect.
12BE6	12.6	4310-6027	20	---	X10	S5	400	Triode Sect.
12BF6	12.6	4310-7020	21	---	X2	S5	600	Triode Sect.
12BF6	12.6	4300-6527	0	30	SH	S1	400	Triode Diode

TIME TYPE	PL	SELECTIONS	WAS	SHOOT	MULT	PRESS	WRT CODE	NOTATIONS
12BF11†	12.6	1C80-BA90	30	---	X10	S5	376	Pent. No. 1
12BF11	12.6	1C30-7625	17	---	X2	S5	200	Pent. No. 2
12BH7	12.6	4572-6183	28	---	X4	S5	475	IDual Triode
12BN6	12.6	4320-7616	0	---	X1	S5	500	Limiter Grid
12BN6	12.6	4360-7612	0	---	X1	S5	525	Cap-P
12BO6	12.6	7250-0480	28	---	X10	S4	350	Cap-P
12BS3†	12.6	4500-2090	0	60	SH	S3	400	Cap-P
Model 752A:	No Adapter	Required.						
12BT3†	12.6	1C00-4070	0	60	SH	S3	650	Pent. No. 1
12BV11†	12.6	1C70-A98B	13	---	X4	S5	400	Pent. No. 2
12BV11	12.6	1C60-3452	13	---	X4	S5	400	
12BY3	12.6	4500-2000	0	60	SH	S3	650	
Model 752A:	No Adapter	Required.						
12CY7	12.6	4520-7813	0	---	X10	S5	500	
12CY7	12.6	4310-5627	10	---	X4	S5	700	
12C5	12.6	4320-7610	13	---	X10	S5	475	
12CA5	12.6	3420-7610	0	---	X10	S5	425	
12CK3†	12.6	4500-2090	0	83	SH	S1	650	
Model 752A:	No Adapter	Required.						
12CL3†	12.6	4500-2090	0	83	SH	S1	650	
Model 752A:	No Adapter	Required.						
12CR6	12.6	4370-5612	11	---	X4	S5	350	Pent. Sect.
12CR6	12.6	4300-2010	0	30	SH	S1	400	Diode Sect.
12CS6	12.6	4310-5627	16	---	X1	S5	300	Grid No. 1
12CS6	12.6	4370-5621	0	---	X1	S5	775	Grid No. 3
12CT3	12.6	4500-2090	0	45	SH	S3	750	
12CU5	12.6	4320-7610	22	---	X10	S5	375	
12CU6	12.6	7250-0480	28	---	X10	S4	350	
12D4	12.6	7800-5030	0	40	SH	S3	650	
12DB5	12.6	4530-9120	25	---	X10	S5	375	
12DJ8	12.6	4572-6183	20	---	X10	S5	775	
12DM4	12.6	7800-5030	0	49	SH	S3	650	
12DM5	12.6	4320-7610	13	---	X10	S5	475	
12DQ6	12.6	7250-0480	36	---	X10	S5	300	
12DT5	12.6	4530-9179	22	---	X10	S5	300	
12DT8	12.6	4370-5621	12	---	X1	S5	375	
12DT8	12.6	4370-5621	8	---	X1	S5	300	
12DT7	12.6	4572-6183	14	---	X4	S5	200	
12DT8	12.6	4572-6183	14	---	X4	S5	625	
12DT8	12.6	4572-6183	14	---	X4	S5	625	
12DWT	12.6	4500-2090	0	55	SH	S3	650	
Model 752A:	No Adapter	Required.						
12DW7	12.6	4570-6080	14	---	X4	S5	200	
12DW7	12.6	4520-1030	26	---	X2	S5	675	
12FK6	12.6	4310-7020	20	---	SH	S1	400	
12FK6	12.6	4300-6520	0	30	SH	S1	400	
12FM6	12.6	4300-7021	0	26	SH	S1	650	
12FM6	12.6	4300-6520	0	36	SH	S1	400	
TIME TYPE	PL	SELECTIONS	WAS	SHOOT	MULT	PRESS	WRT CODE	NOTATIONS
12FQ9	12.6	4572-6390	10	---	X2	S5	250	
12FQ9	12.6	4572-6190	10	---	X2	S5	250	
12FX6	12.6	4320-7610	15	---	X10	S5	475	
12G11†	12.6	1C80-BA90	36	---	X4	S5	660	
12G11	12.6	1C30-6724	20	---	X2	S5	150	
12GC6	12.6	2750-0430	50	---	X10	S5	300	
12GE5†	12.6	1C80-7240	50	---	X10	S5	300	
12GL6†	12.6	4560-0730	31	---	X10	S5	490	
Model 752A:	No Adapter	Required.						
12GN7	12.6	4620-7819	10	---	X20	S5	600	
12GT6	12.6	4560-0730	31	---	X10	S5	490	
Model 752A:	No Adapter	Required.						
12GV9†	12.6	1C90-0840	48	---	X10	S5	350	
12GW6	12.6	2750-0480	31	---	X10	S5	460	
12H-B25	12.6	4520-0798	45	---	X10	S5	350	
12HE7†	12.6	1C90-0840	58	---	X10	S5	200	
12HE7	12.6	1C00-2040	0	85	SH	S1	500	
12HG7	12.6	4520-7813	11	---	X20	S5	550	
12HL5	12.6	4520-7930	21	---	X10	S5	625	
12HL7	12.6	4520-7813	18	---	X10	S5	450	
12JB6†	12.6	4520-0138	31	---	X10	S5	450	
Model 752A:	No Adapter	Required.						
12JF3†	12.6	1C30-0240	36	---	X10	S5	300	
12JN6†	12.6	1C80-7324	48	---	X10	S5	350	
12JN8	12.6	4590-6780	12	---	X10	S5	375	
12JN8	12.6	4510-2030	20	---	X10	S5	400	
12JO6	12.6	4570-1396	55	---	X4	S5	600	
12JO6	12.6	4500-6090	0	70	SH	S1	400	
12JS6†	12.6	1C50-0324	68	---	X4	S5	600	
12JT6†	12.6	4520-9736	47	---	X10	S5	275	
Model 752A:	No Adapter	Required.						
12K6	12.6	4320-7510	10	---	X4	S4	625	
12MD6†	12.6	4568-3270	27	---	X4	S5	575	
12MD8	12.6	4590-1070	27	---	X4	S5	575	
Model 752A:	No Adapter	Required.						
12MN8†	12.6	1C80-6030	21	---	X4	S5	650	
12MN8	12.6	1C48-4220	21	---	X4	S5	650	
12MN8	12.6	4572-6136	23	---	X4	S5	400	
12NN7	12.6	7841-6283	23	---	X4	S5	400	
12NT10†	12.6	1C80-BA90	20	---	X10	S5	375	
12NT10	12.6	1C30-7625	15	---	X2	S5	200	
12V6	12.6	7250-3480	18	---	X4	S5	575	
12W6	12.6	7250-3480	26	---	X10	S5	375	
12X4	12.6	4300-6170	0	18	SH	S3	650	
13CW4†	12.6	3140-2060	10	---	X10	S4	575	
Model 752A:	No Adapter	Required.						
13CW4	12.6	AC40-2080	10	---	X10	S4	575	
13DE7	12.6	4570-6080	20	---	X2	S5	625	
13DE7	12.6	4520-1090	05	---	X4	S5	775	

TIME TYPE	PR	SELECTIONS	TIME	SCORE	RESULT	PRESS	NUMBER IN LEFT COLUMN	NOTATIONS
21L R8t	20.0	4520-6730	40	---	X10	S5	350	Pent. Sect. No Adapter (S4, S5) Triode Sect.
21L R8	20.0	4590-8010	21	---	X4	S6	350	
Model 752A:	No Adapter	Required.						
21LUBt	20.0	1C60-4690	40	---	X10	S5	350	Pent. Sect.
21LUB	20.0	1CA0-2080	21	---	X4	S5	350	Triode Sect.
21MYBt	20.0	1C60-4890	40	---	X10	S5	350	Pent. Sect.
21MYB	20.0	1CA0-2080	21	---	X4	S5	350	Triode Sect.
22BH3t	20.0	4500-2090	0	52	SH	S3	650	SET "LINE ADJUST" 200 OHM RESIST NO OR MORE
Model 752A:	No Adapter	Required.						
22BW3t	25.0	1C00-A070	0	49	SH	S3	650	
22DE4	25.0	7800-5030	0	49	SH	S3	650	
22JF6t	20.0	4520-0738	35	---	X10	---	650	
Model 752A:	No Adapter	Required.						
22JG6t	20.0	4520-9736	35	---	X10	---	650	
Model 752A:	No Adapter	Required.						
22JF6t	20.0	4520-9136	79	---	X2	S5	675	WE ADAPTER (S4, S5) 100-14
Model 752A:	No Adapter	Required.						
22JUBt	20.0	4520-0738	79	---	X2	S5	675	WE ADAPTER (S4, S5) 100-14
Model 752A:	No Adapter	Required.						
22KM6t	20.0	4520-0738	72	---	X4	S5	350	WE ADAPTER (S4, S5) 100-14
Model 752A:	No Adapter	Required.						
22KVBt	20.0	4520-9736	65	---	X4	S6	760	WE ADAPTER (S4, S5) 100-14
Model 752A:	No Adapter	Required.						
23J56t	25.0	1C50-0324	68	---	X4	S5	600	Cap-P
23Z9t	25.0	1C80-5970	40	---	X10	S5	300	Pent. Sect.
23Z9	25.0	1CA0-B070	20	---	X4	S5	650	Triode No. 1
23Z9	25.0	1C30-2070	30	---	X4	S5	360	Triode No. 2
24BF1t	25.0	1C80-B490	30	---	X10	S5	450	Pent. No. 1
24BF1t	25.0	1C30-7625	19	---	X2	S5	276	Pent. No. 2
24GA7t	25.0	1CA0-7350	49	---	X4	S5	700	Pent. Sect.
24GA7	25.0	1C00-B080	0	43	SH	S3	400	Diode Sect.
24JEB6t	25.0	4520-0738	42	---	X10	---	576	Cap-P, No Adapter (S4, S5) 100-14
Model 752A:	No Adapter	Required.						
24JZ8t	25.0	1C70-4690	40	---	X10	S5	425	Pent. Sect.
24JZ8	25.0	1CA0-2080	34	---	X2	S5	500	Triode Sect.
24LO6t	25.0	4520-0738	42	---	X10	---	576	Cap-P, No Adapter (S4, S5) 100-14
Model 752A:	No Adapter	Required.						
25AV5	25.0	7210-5830	28	---	X10	S4	350	
25AX4	25.0	7800-5030	0	40	SH	S3	660	
25BK5	25.0	4530-1960	0	---	X10	S5	475	
25BQ6	25.0	7260-0480	28	---	X10	S4	360	
25C5	25.0	4320-7610	13	---	X10	---	475	
25CA5	25.0	3420-7610	0	---	X10	S5	425	
25CO6	25.0	7250-0830	29	---	X10	S4	376	
25CG3t	25.0	1C00-4070	0	78	SH	S3	400	
25CK3t	25.0	4500-2090	0	83	SH	S1	650	
Model 752A:	No Adapter	Required.						
25COM3t	25.0	4500-2790	0	64	SH	S3	650	WE ADAPTER (S4, S5) 100-14
Model 752A:	No Adapter	Required.						

TUNE TYPE	FL	SELECTORS	MASS	SHORT	WALT	PRESS	NO. OF COND	INITIATIONS
25CT3	25.0	4500-2090	0	45	SH	S3	750	EXP- USE ADAPTER 10-4, 100-110 USE ADAPTER 10-4, 100-110 Cap-P
25DNE	25.0	7250-0930	28	—	X10	—	650	EXP- USE ADAPTER 10-4, 100-110 Cap-P
25EC6	25.0	7250-0630	69	—	X4	S5	625	EXP- USE ADAPTER 10-4, 100-110 Cap-P
25EH6	25.0	4320-7610	13	—	X10	S5	450	EXP- USE ADAPTER 10-4, 100-110 Cap-P
25F5	25.0	4320-7610	30	—	X4	S5	625	EXP- USE ADAPTER 10-4, 100-110 Cap-P
25F5A	25.0	4320-7610	30	—	X4	S5	700	EXP- USE ADAPTER 10-4, 100-110 Cap-P
25H-B26	25.0	4620-0798	45	—	X10	S5	360	EXP- USE ADAPTER 10-4, 100-110 Cap-P
25HX5	25.0	4570-9630	55	—	X10	S5	350	EXP- USE ADAPTER 10-4, 100-110 Cap-P
25JQ5	25.0	4570-1396	55	—	X4	S5	600	EXP- USE ADAPTER 10-4, 100-110 Cap-P
25JQ8	25.0	4500-6090	0	70	SH	S1	400	EXP- USE ADAPTER 10-4, 100-110 Cap-P
25JZ8	25.0	1C70-4890	40	—	X10	S5	425	EXP- USE ADAPTER 10-4, 100-110 Cap-P
25L6	25.0	1C40-2080	34	—	X2	S5	500	EXP- USE ADAPTER 10-4, 100-110 Cap-P
25W4	25.0	7250-3481	25	—	X10	S3	375	EXP- USE ADAPTER 10-4, 100-110 Cap-P
25W4	25.0	7800-5030	0	60	SH	S3	650	EXP- USE ADAPTER 10-4, 100-110 Cap-P
26D05	25.0	7210-0430	65	—	X4	S5	450	EXP- USE ADAPTER 10-4, 100-110 Cap-P
26H05	25.0	8710-0320	75	—	X4	S5	900	EXP- USE ADAPTER 10-4, 100-110 Cap-P
26LW6	25.0	8750-0320	70	—	X10	S5	475	EXP- USE ADAPTER 10-4, 100-110 Cap-P
26LX6	25.0	1C50-0324	75	—	X4	S5	900	EXP- USE ADAPTER 10-4, 100-110 Cap-P
27LF6	25.0	1C50-0324	77	—	X4	S5	750	EXP- USE ADAPTER 10-4, 100-110 Cap-P
28D7	25.0	8170-5362	9	—	X4	S4	525	EXP- USE ADAPTER 10-4, 100-110 Cap-P
28D7	25.0	8120-4367	9	—	X4	S4	525	EXP- USE ADAPTER 10-4, 100-110 Cap-P
28H06	25.0	4520-7613	11	—	X20	S5	400	EXP- USE ADAPTER 10-4, 100-110 Cap-P
26HD3	25.0	1C80-7840	52	—	X10	S6	400	EXP- USE ADAPTER 10-4, 100-110 Cap-P
29GK6	25.0	4520-7813	10	—	X10	S5	575	EXP- USE ADAPTER 10-4, 100-110 Cap-P
29LE6	25.0	4580-0392	30	—	X10	S4	750	EXP- USE ADAPTER 10-4, 100-110 Cap-P
30AG11	35.0	1C85-7694	11	—	X10	S5	525	EXP- USE ADAPTER 10-4, 100-110 Cap-P
30AG11	35.0	1C00-43B2	0	76	SH	S1	400	EXP- USE ADAPTER 10-4, 100-110 Cap-P
30HJ5	25.0	1C80-7924	63	—	X10	S5	350	EXP- USE ADAPTER 10-4, 100-110 Cap-P
30JZ6	35.0	1C50-0324	53	—	X10	S5	300	EXP- USE ADAPTER 10-4, 100-110 Cap-P
30KDB	35.0	1C50-0324	75	—	X4	S5	750	EXP- USE ADAPTER 10-4, 100-110 Cap-P
30MB6	35.0	1C50-0324	75	—	X4	S5	750	EXP- USE ADAPTER 10-4, 100-110 Cap-P
30M-P27	25.0	4320-7610	52	—	X4	S5	825	EXP- USE ADAPTER 10-4, 100-110 Cap-P
30R-K47	25.0	4500-9020	0	56	SH	S3	800	EXP- USE ADAPTER 10-4, 100-110 Cap-P
31AL10	35.0	1C80-4570	37	—	X4	S5	790	EXP- USE ADAPTER 10-4, 100-110 Cap-P
31AL10	35.0	1C80-9040	15	—	X4	S5	790	EXP- USE ADAPTER 10-4, 100-110 Cap-P
31AL10	35.0	1C30-2070	28	—	X4	S5	472	EXP- USE ADAPTER 10-4, 100-110 Cap-P
31JSS6	35.0	1C50-0324	68	—	X4	S5	600	EXP- USE ADAPTER 10-4, 100-110 Cap-P
31JQ6	35.0	4520-0738	42	—	X10	S5	575	EXP- USE ADAPTER 10-4, 100-110 Cap-P
Model 752A	No Adapter	Required.	—	—	X4	S5	650	EXP- USE ADAPTER 10-4, 100

TUNE TYPE	FIL.	SELECTIONS	MAS	SIGHT	MULT	PRESS	HARMONIC MULT COND	NOTATIONS
{33HE7t}	35.0	1C90-5880	58	---	X10	S6	200	Pent. Sect.
{33HE7}	35.0	1C00-2040	0	65	SH	S3	500	Diode Sect.
{33UR6t}	35.0	4E20-9136	79	---	X2	S5	575	SEE ADAPTER IN Q. SECTION
{Model 752A: No Adapter Required.}								
{33UV6t}	35.0	1CB0-732A	60	---	X10	S5	325	
{34CD3t}	35.0	1C00-A070	0	63	SH	S3	650	
{34CE3t}	35.0	1C00-4070	0	65	SH	S3	650	
{34QD5}	35.0	3420-7610	39	---	X4	S5	700	
{34CM3t}	35.0	4500-2790	0	64	SH	S3	650	SHORT ON L. SEE ADAPTER IN Q. SECTION
{Model 752A: No Adapter Required.}								
{35B5}	35.0	4310-5620	0	---	X10	S4	300	
{35C5}	35.0	4320-7610	0	---	X10	S4	300	
{35EH5}	35.0	4320-7610	15	---	X10	S5	450	
{35QL6}	35.0	4320-7610	35	---	X10	S5	325	
{35HB8}	35.0	4590-7680	24	---	X4	S5	475	Pent. Sect. Triode Sect.
{35HBB}	35.0	4510-3020	15	---	X4	S5	475	
{35L6}	35.0	7250-3480	0	---	X10	S4	300	
{35LR6t}	35.0	1C50-0324	80	---	X4	S6	2500	Cap-P
{35W4}	35.0	4300-5070	0	50	SH	S3	650	
{35Z5}	35.0	7200-5080	0	50	SH	S3	650	
{36AM3}	35.0	4300-5070	0	49	SH	S3	650	
{36KDe6t}	35.0	1C50-0324	75	---	X4	S5	900	Cap-P
{36MCGt}	35.0	4520-0738	75	---	X4	S5	900	Cap-P
{Model 752A: No Adapter Required.}								
{38HE7t}	50.0	1C90-5880	61	---	X10	S5	200	Pent. Sect. Triode Sect.
{38HE7}	50.0	1C00-2040	0	82	SH	S1	500	Diode Sect.
{38HK7t}	35.0	1C90-5880	60	---	X4	S5	625	Pent. Sect.
{38HK7}	35.0	1C00-2040	0	88	SH	S1	400	Diode Sect.
{40FR5}	35.0	3420-7610	40	---	X4	S5	600	
{40KD6t}	35.0	1C50-0324	75	---	X4	S5	900	Cap-P
{42EC4}	50.0	4500-7000	0	66	SH	S3	350	(SEE ADAPTER IN Q. SECTION) (CONNECT CAP TO EXT.) (SET BIAS REG. JACKET) (IMPOSSIBLE WITH EXACT CAP. SET - LIMIT RESISTANCE AT 10 OHMS)
{Model 752A:}								
{42KN6t}	50.0	1C50-0324	64	---	X10	S5	300	Pent. Sect.
{50BM8}	50.0	4530-6720	26	---	X4	S5	625	Pent. Sect.
{50BM8}	50.0	4510-9080	0	---	X2	S5	775	Triode Sect.
{50OC5}	50.0	4320-7610	13	---	X10	S5	475	NOISE SUPPLY IS AND PRESS IN
{50DC4}	50.0	4300-5070	0	54	SH	S3	650	
{50EH5}	50.0	4320-7610	13	---	X10	S5	650	
{50FE5}	50.0	7250-3480	30	---	X10	S5	400	
{50FK5}	50.0	4320-7610	21	---	X4	S5	750	
{50GY7t}	50.0	1CA0-5B80	34	---	X10	S5	450	Pent. Sect. Triode Sect.
{50G Y7}	50.0	1C00-2040	0	76	SH	S3	400	DIODE SECT.
{50HC6}	50.0	3420-7610	13	---	X10	S5	650	
{50HK6}	50.0	4320-7610	13	---	X10	S5	475	NOISE SUPPLY IS AND PRESS IN
{50HN5}	50.0	4520-7930	21	---	X10	S5	625	
{53HK7t}	50.0	1C90-5880	60	---	X4	S5	625	Pent. Sect.
{53HK7}	50.0	1C00-2040	0	B8	SH	S1	400	Diode Sect.
{58HE7t}	50.0	1C90-5880	58	---	X10	S5	200	Pent. Sect.
{58HE7}	50.0	1C00-2040	0	85	SH	S1	500	Diode Sect.
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TUBE TYPE	FL	SELECTIONS	WAS	SMALL	MULT	PRESS	WARMING	NOTATIONS
							MUT COND	
5643	6.3	3670-1052	#	50	SH	S3	650	STRIPPED AT ADJACENT IN
5644	OFF	0000-1020	---	---	VR	TS9	95V	STRIPPED AT ADJACENT IN
5651	OFF	0000-1070	---	---	VR	TS9	87V	STRIPPED AT ADJACENT IN
5654	6.3	4310-5620	10	---	X4	S5	675	STRIPPED AT ADJACENT IN
5658	6.3	4523-8197	11	---	X10	S5	375	STRIPPED AT ADJACENT IN
5656	6.3	4532-7198	11	---	X10	S5	375	STRIPPED AT ADJACENT IN
5670	6.3	9173-6482	16	---	X10	S5	300	STRIPPED AT ADJACENT IN
5672	1.1	3540-1200	27	---	X1	S5	300	STRIPPED AT ADJACENT IN
5675	6.3	2730-5060	18	---	X10	S5	400	STRIPPED AT ADJACENT IN
5676	1.1	4230-1000	26	---	X2	S5	500	STRIPPED AT ADJACENT IN
5677	1.1	4230-1000	38	---	X2	S5	200	STRIPPED AT ADJACENT IN
5678	1.1	3540-1200	8	---	X1	S5	525	STRIPPED AT ADJACENT IN
5686	6.3	4520-7630	10	---	X4	S5	475	STRIPPED AT ADJACENT IN
5687	12.6	4572-9163	28	---	X10	S5	475	STRIPPED AT ADJACENT IN
5696	6.3	4310-6025	#	94	SH	S6	650	STRIPPED AT ADJACENT IN
5702	6.3	3470-1265	10	---	X4	S5	675	STRIPPED AT ADJACENT IN
5703	6.3	3450-1060	22	---	X10	S5	300	STRIPPED AT ADJACENT IN
5704	6.3	2300-1040	80	---	SH	S1	400	STRIPPED AT ADJACENT IN
5718	6.3	3610-8057	10	---	X10	S4	350	STRIPPED AT ADJACENT IN
5719	6.3	3610-8057	10	---	X4	S5	350	STRIPPED AT ADJACENT IN
5725	6.3	4310-5627	0	---	X2	S6	550	STRIPPED AT ADJACENT IN
5726	6.3	4300-7215	0	78	SH	S1	400	STRIPPED AT ADJACENT IN
5727	6.3	4310-6025	#	94	SH	S6	650	STRIPPED AT ADJACENT IN
5744	6.3	2340-1050	7	---	X10	S5	250	STRIPPED AT ADJACENT IN
5749	6.3	4310-5672	0	---	X4	S5	500	STRIPPED AT ADJACENT IN
5750	6.3	4370-5621	0	---	X2	S5	250	STRIPPED AT ADJACENT IN
5751	6.3	4310-6027	20	---	X10	S5	400	STRIPPED AT ADJACENT IN
5755	12.6	4572-6183	14	---	X4	S5	200	STRIPPED AT ADJACENT IN
5763	12.6	4563-8172	0	---	X4	S6	225	STRIPPED AT ADJACENT IN
5763	6.3	4590-1673	0	---	X10	S5	425	STRIPPED AT ADJACENT IN
5784	OFF	0000-3050	---	---	VR	TS9	87V	STRIPPED AT ADJACENT IN
5787	6.3	3470-1285	16	---	X4	S5	275	STRIPPED AT ADJACENT IN
5812	OFF	0000-3050	---	---	VR	TS9	100V	STRIPPED AT ADJACENT IN
5814	*6.3	4310-5602	28	---	X4	S6	650	STRIPPED AT ADJACENT IN
5824	12.6	4572-6183	25	---	X2	S5	675	STRIPPED AT ADJACENT IN
5825	25.0	7250-3480	20	---	X10	S4	300	STRIPPED AT ADJACENT IN
5829	1.4	4100-0000	0	78	SH	S6	250	STRIPPED AT ADJACENT IN
5840	6.3	3500-6172	0	---	SH	S1	400	STRIPPED AT ADJACENT IN
5840	6.3	3610-5740	16	---	X4	S5	475	STRIPPED AT ADJACENT IN
5842	6.3	3950-1060	19	---	X20	S6	375	STRIPPED AT ADJACENT IN
5844	6.3	4356-2170	24	---	X4	S5	525	STRIPPED AT ADJACENT IN
5847	6.3	3910-6840	13	---	X20	S5	300	STRIPPED AT ADJACENT IN
5852	6.3	7200-5380	0	35	SH	S3	400	STRIPPED AT ADJACENT IN
5876	6.3	2730-5060	11	---	X10	S5	325	STRIPPED AT ADJACENT IN
5881	6.3	7250-3481	17	---	X10	S5	300	STRIPPED AT ADJACENT IN
5893	6.3	7230-5060	16	---	X10	S6	375	STRIPPED AT ADJACENT IN

TUBE TYPE	FL	SELECTIONS	WAS	SMALL	MULT	PRESS	WARMING	NOTATIONS
							MUT COND	
5894	12.6	1762-0340	35	---	X4	S5	625	RIGHT CAP-4
5904	12.6	1726-0340	35	---	X4	S5	625	RIGHT CAP-4
5896	6.3	3600-5172	0	40	SH	S3	650	Left Cap-P
5897	6.3	3610-8050	19	---	X10	S5	300	IDual Diode
5899	6.3	3610-5740	13	---	X4	S5	475	
5900	6.3	3610-5740	13	---	X4	S5	475	
5902	6.3	3610-5720	40	---	X4	S5	650	
5903	25.0	3600-5172	0	40	SH	S3	650	IDual Diode
5904	25.0	3610-8050	20	---	X4	S4	475	
5905	25.0	3610-5720	30	---	X2	S5	500	
5906	25.0	3610-5720	13	---	X4	S5	475	
5907	25.0	3610-5720	15	---	X4	S4	350	
5908	25.0	3610-5724	8	---	X4	S4	275	
5915A	6.3	4370-5621	0	---	X2	S5	475	
5915A	6.3	4310-5627	0	---	X2	S5	475	
5916	25.0	3610-5724	20	---	X4	S5	250	
5916	25.0	3640-5721	20	---	X2	S5	225	
5916	2.5	4130-2000	74	---	X4	S5	475	
5930	5.0	8200-6000	0	35	SH	S3	650	
5931	5.0	8200-4000	0	30	SH	S3	650	
5931	6.3	7250-3461	17	---	X10	S5	300	
5932	6.3	7250-3461	17	---	X4	S5	500	
5933	6.3	6130-0240	28	---	X4	S5	500	
5961	6.3	7250-3468	30	---	X4	S5	525	
5961	6.3	7250-4068	30	---	X4	S5	525	
5963	12.6	4572-6183	17	---	X4	S5	425	
5964	6.3	4356-2170	21	---	X4	S5	425	
5985	12.6	4572-6183	15	---	X10	S5	400	
5971	1.1	5320-1000	20	---	X4	S5	225	
5975	6.3	4530-1020	29	---	X4	S5	625	
5977	6.3	3610-8053	30	---	X4	S5	625	
5987	6.3	3610-2050	39	---	X2	S4	575	
5993	6.3	3700-9150	0	30	SH	S3	650	IDual Diode
5995	6.3	4300-1050	0	30	SH	S3	650	Leads 1-3-4-5
5998	7.5	7841-5263	37	---	X20	S4	425	IDual Triode
6005	6.3	4310-5620	18	---	X4	S5	575	
6012	6.3	7230-6018	#	93	SH	S6	650	
6021	6.3	3672-8154	15	---	SH	S5	325	IDual Triode
6028	20.0	4310-5620	10	---	X4	S5	675	
6046	25.0	7250-3481	25	---	X10	S5	375	
6050	1.1	4230-1000	32	---	X4	S5	200	
6051	1.1	3540-1200	39	---	X1	S4	350	
6052	6.3	3600-5172	0	40	SH	S3	650	IDual Diode
6053	25.0	3600-5172	0	40	SH	S3	650	IDual Diode
6055	25.0	3610-8050	20	---	X4	S4	475	
6056	25.0	3610-5720	15	---	X4	S4	350	
6058	6.3	4300-7215	0	78	SH	S1	400	IDual Diode
6064	6.3	3410-5726	11	---	X10	S5	300	
6072	12.6	4572-6183	15	---	X4	S5	275	IDual Triode

TUBE TYPE	FL	SELECTORS	BAS	SHUNT	MULT	PRESS	ANALOG	MULT COND	NOTATIONS	TUBE TYPE	FL	SELECTORS	BAS	SHUNT	MULT	PRESS	ANALOG	MULT COND	NOTATIONS
6073	OFF	0000-5020	---	---	VR	1S9	150V		(REGULATION - 2 VOLTS FROM 1 TO 10 MA)	6332	OFF	0000-1020	---	---	VR	1S9	63V		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6074	OFF	0000-5020	---	---	VR	1S9	108V		(REGULATION - 1 VOL FROM 1 TO 10 MA)	6350	12.6	4583-6172	27	---	X10	S5	275	150V	(REGULATION - 1 VOL FROM 1 TO 10 MA)
6080	7.5	7841-5263	55	---	X4	S4	625		(REGULATION - 1 VOL FROM 1 TO 10 MA)	6354	OFF	0000-1020	---	---	VR	1S9	150V		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6082	25.0	7841-5263	55	---	X4	S4	625		(REGULATION - 1 VOL FROM 1 TO 10 MA)	6360	12.6	4531-6720	13	---	X4	S5	500		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6084	6.3	4590-6138	15	---	X2	S5	575		(REGULATION - 1 VOL FROM 1 TO 10 MA)	6360	12.6	4513-6720	13	---	X4	S5	500		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6085	12.6	4572-6183	17	---	X4	S5	425		(REGULATION - 1 VOL FROM 1 TO 10 MA)	6384	6.3	6870-3510	17	---	X10	S5	325		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6086	20.0	4520-6138	10	---	X10	S5	550		(REGULATION - 1 VOL FROM 1 TO 10 MA)	6386	6.3	9173-6482	23	---	X4	S5	625		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6096	6.3	4310-5620	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)	6397	2.5	7180-3600	29	---	X2	S5	600		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6097	6.3	4300-7215	0	78	SH	S1	400		(REGULATION - 1 VOL FROM 1 TO 10 MA)	6414	12.6	4572-6183	15	---	X10	S5	350		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6098	6.3	6870-3510	17	---	X10	S5	325		(REGULATION - 1 VOL FROM 1 TO 10 MA)	6418	12.6	4590-1673	0	0	SH	S1	425		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6110	6.3	3600-5172	0	70	SH	S1	400		(REGULATION - 1 VOL FROM 1 TO 10 MA)	6463	12.6	4583-6172	24	---	X10	S5	300		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6111	6.3	3672-8154	8	---	X10	S4	300		(REGULATION - 1 VOL FROM 1 TO 10 MA)	6485	6.3	4310-5672	13	---	X10	S5	375		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6112	6.3	3672-8154	15	---	X4	S5	400		(REGULATION - 1 VOL FROM 1 TO 10 MA)	6519	1.4	3540-1200	20	---	X1	S5	350		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6134	6.3	7240-8653	13	---	X10	S5	375		(REGULATION - 1 VOL FROM 1 TO 10 MA)	6520	7.5	7841-5263	55	---	X4	S4	625		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6135	6.3	4360-1070	25	---	X2	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)	6524	6.3	5362-0740	15	---	X4	S5	700		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6136	6.3	4310-5672	10	---	X4	S5	475		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	5326-0140	15	---	X4	S5	700		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6137	6.3	7240-8653	12	---	X4	S5	300		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6146	6.3	7250-0318	10	---	X10	S4	425		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6148	6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6152	6.3	4530-1020	28	---	X4	S5	425		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6159	25.0	7250-0318	12	78	SH	S1	400		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6173	6.3	2700-5060	0	78	SH	S1	400		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6186	6.3	4310-5620	10	---	X4	S5	625		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6189	12.6	4572-6183	25	---	X2	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6197	6.3	4520-6317	12	---	X10	S5	475		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6201	12.6	4572-6183	14	---	X4	S5	625		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6202	6.3	4300-6170	0	0	SH	S3	650		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6203	6.3	4500-9170	0	18	SH	S3	650		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6206	6.3	3610-5724	16	---	X4	S5	475		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6206	6.3	3610-5724	13	---	X4	S5	475		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6211	12.6	4572-6183	23	---	X4	S5	550		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6213	OFF	0000-3050	---	---	VR	1S9	130V		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6216	6.3	4520-1730	0	---	X10	S4	550		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6221	6.3	3610-8050	20	---	X10	S5	525		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6222	6.3	3610-8050	21	---	X2	S5	275		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6223	6.3	3610-8050	16	---	X4	S5	475		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6225	6.3	3610-8050	16	---	X4	S5	475		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6245	6.3	3470-1265	11	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6247	6.3	3620-8050	11	---	X4	S5	300		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6263	6.3	7230-5060	16	---	X10	S5	450		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6264	6.3	7230-5060	16	---	X10	S5	450		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6265	6.3	4310-5627	10	---	X4	S5	425		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6265	6.3	4310-5627	10	---	X4	S5	425		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6265	6.3	4310-5627	10	---	X4	S5	425		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6265	6.3	4310-5627	10	---	X4	S5	425		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6265	6.3	4310-5627	10	---	X4	S5	425		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6265	6.3	4310-5627	10	---	X4	S5	425		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6265	6.3	4310-5627	10	---	X4	S5	425		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6265	6.3	4310-5627	10	---	X4	S5	425		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6265	6.3	4310-5627	10	---	X4	S5	425		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6265	6.3	4310-5627	10	---	X4	S5	425		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6265	6.3	4310-5627	10	---	X4	S5	425		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6265	6.3	4310-5627	10	---	X4	S5	425		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6265	6.3	4310-5627	10	---	X4	S5	425		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6265	6.3	4310-5627	10	---	X4	S5	425		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6265	6.3	4310-5627	10	---	X4	S5	425		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6265	6.3	4310-5627	10	---	X4	S5	425		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6265	6.3	4310-5627	10	---	X4	S5	425		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6265	6.3	4310-5627	10	---	X4	S5	425		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6265	6.3	4310-5627	10	---	X4	S5	425		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6265	6.3	4310-5627	10	---	X4	S5	425		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6265	6.3	4310-5627	10	---	X4	S5	425		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6265	6.3	4310-5627	10	---	X4	S5	425		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6265	6.3	4310-5627	10	---	X4	S5	425		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6265	6.3	4310-5627	10	---	X4	S5	425		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6265	6.3	4310-5627	10	---	X4	S5	425		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6265	6.3	4310-5627	10	---	X4	S5	425		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6265	6.3	4310-5627	10	---	X4	S5	425		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6265	6.3	4310-5627	10	---	X4	S5	425		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6265	6.3	4310-5627	10	---	X4	S5	425		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)
6265	6.3	4310-5627	10	---	X4	S5	425		(REGULATION - 1 VOL FROM 1 TO 10 MA)		6.3	3470-1265	10	---	X4	S5	675		(REGULATION - 1 VOL FROM 1 TO 10 MA)</

TIME TYPE	FL	SELECTIONS	WAS	SHAWT	MULT	PRESS	WATT CONO	NOTATIONS
6814	6.3	3610-8050	24	---	X4	S5	650	
6829	12.6	4572-6183	15	---	X10	S5	425	2 Dual Triode
6832	6.3	3672-8154	27	---	X2	S5	325	2 Dual Triode
6850	12.6	5352-0740	15	---	X4	S5	700	2 Dual Triode
6850	12.6	5352-0140	15	---	X4	S5	700	2 Dual Triode
6850	Use	Hickok Adapter Code No. 1050-107						
6872	6.3	3470-1265	17	---	X2	S5	700	Cap-P
6883	12.6	7250-0318	12	---	X10	S4	425	2 Dual Diode
6887	6.3	4300-7215	0	78	SH	S1	400	2 Dual Diode
6889	6.3	6870-0610	17	---	X10	S5	325	Cap-P
6900	12.6	4572-9163	28	---	X10	S5	475	2 Dual Triode
6912	6.3	4300-7215	0	78	SH	S1	400	2 Dual Diode
6922	6.3	4572-6183	21	---	X10	S5	675	2 Dual Triode
6928	6.3	4310-5620	18	---	X4	S5	575	2 Dual Triode
6938	12.6	4531-8720	12	---	X10	S5	425	Tetrode No. 1
6939	12.6	4513-6720	12	---	X10	S5	425	Tetrode No. 2
6943	6.3	3610-5724	11	---	X4	S5	475	
6944	6.3	3610-5724	9	---	X4	S5	475	
6945	6.3	3510-5720	44	---	X4	S5	450	
6946	6.3	3610-8050	27	---	X4	S5	600	
6947	6.3	3672-8154	17	---	X4	S5	625	2 Dual Triode
6948	6.3	3672-8154	16	---	X4	S5	300	2 Dual Triode
6973	6.3	4530-9170	14	---	X10	S5	300	
7000	6.3	7200-3486	21	---	X2	S5	375	Cap-G
7025	12.6	4572-6183	14	---	X2	S5	300	2 Dual Triode
7027	6.3	7250-3180	17	---	X10	S5	300	
7036	6.3	4370-5621	0	---	X2	S5	375	Cap-G
7044	12.6	4572-9163	28	---	X10	S5	375	Cap-G
7054	12.6	4520-7813	0	---	X10	S5	475	2 Dual Triode
7055	12.6	4300-7215	0	78	SH	S1	500	2 Dual Triode
7056	12.6	4310-5627	10	---	X4	S5	700	2 Dual Triode
7057	12.6	4572-6183	17	---	X10	S5	425	2 Dual Triode
7058	12.6	4572-6183	14	---	X4	S5	200	2 Dual Triode
7059	12.6	4520-6370	12	---	X4	S5	475	2 Dual Triode
7059	12.6	4590-1080	10	---	X10	S5	525	2 Dual Triode
7060	12.6	4580-6790	11	---	X4	S5	725	2 Dual Triode
7060	12.6	4520-1030	16	---	X4	S5	600	2 Dual Triode
7061	12.6	4530-9170	18	---	X4	S5	575	2 Dual Triode
7119	12.6	5472-9163	17	---	X20	S5	500	2 Dual Triode
7137	6.3	4360-7020	15	---	X20	S5	350	2 Dual Triode
7167	12.6	4310-5620	12	---	X4	S5	525	2 Dual Triode
7189	6.3	5420-7930	12	---	X10	S5	575	2 Dual Triode
7199	6.3	4570-2360	7	---	X10	S5	375	2 Dual Triode
7199	6.3	4590-1080	29	---	X2	S5	650	2 Dual Triode
7212	6.3	7250-0318	12	---	X10	S4	425	2 Dual Triode
7233	6.3	4520-9080	29	---	X20	S4	660	2 Dual Triode
7236	7.5	7841-5263	40	---	X10	S4	550	2 Dual Triode
7239	6.3	4510-0697	30	---	X4	S5	360	2 Dual Triode
7247	12.6	4570-6080	14	---	X4	S5	200	2 Dual Triode
7247	12.6	4520-1030	25	---	X2	S5	675	2 Dual Triode
7258	12.6	4580-6791	10	---	X10	S6	375	Pent. Sect.
7258	12.6	4520-1736	21	---	X4	S5	700	2 Dual Triode
7308	6.3	4572-6183	21	---	X10	S5	675	2 Dual Triode
7315	12.6	4572-6183	25	---	X2	S5	675	2 Dual Triode
7355	6.3	7250-3850	10	---	X10	S5	475	2 Dual Triode
7357	25.0	7250-0318	12	---	X10	S4	425	2 Dual Triode
7358	6.3	7250-0318	12	---	X10	S4	425	2 Dual Triode
7360	6.3	4530-6219	16	---	X2	S5	650	2 Dual Triode
7370	20.0	5870-9060	28	---	X10	S5	475	2 Dual Triode
7370	20.0	8420-1030	28	---	X10	S5	475	2 Dual Triode
7408	6.3	7250-3481	18	---	X4	S5	575	2 Dual Triode
7543	6.3	4310-5672	10	---	X4	S5	475	2 Dual Triode
7551	12.6	4520-6317	23	---	X10	S5	375	2 Dual Triode
7558	6.3	4520-6317	23	---	X10	S5	375	2 Dual Triode
7561	6.3	2750-3480	17	---	X10	S5	375	2 Dual Triode
7581	6.3	3140-2080	13	---	X10	S4	600	2 Dual Triode
7586	6.3	AC40-2080	13	---	X10	S4	600	2 Dual Triode
7587	6.3	AC40-0280	10	---	X10	S5	450	2 Dual Triode
7587	6.3	7260-3450	10	---	X10	S5	500	2 Dual Triode
7591	6.3	4510-3820	10	---	X2	S5	500	2 Dual Triode
7683	6.3	4520-6370	10	---	X4	S5	550	2 Dual Triode
7687	6.3	4590-1080	28	---	X4	S5	425	2 Dual Triode
7687	6.3	4560-9170	34	---	X10	S5	450	2 Dual Triode
7695	6.3	6100-2354	21	---	X2	S5	375	2 Dual Triode
7700	12.6	5420-6910	11	---	X4	S5	550	2 Dual Triode
7716	12.6	4570-9860	12	---	X10	S5	425	2 Dual Triode
7716	12.6	4520-3010	12	---	X2	S5	575	2 Dual Triode
7717	6.3	4310-5620	12	---	X4	S5	625	2 Dual Triode
7719	12.6	5420-1030	30	---	X4	S5	450	2 Dual Triode
7724	12.6	4580-9070	10	---	X2	S5	250	2 Dual Triode
7724	12.6	4500-2631	0	78	SH	S1	400	2 Dual Triode
7728	12.6	4572-6183	14	---	X4	S5	625	2 Dual Triode
7729	12.6	4572-6183	14	---	X4	S5	200	2 Dual Triode
7730	12.6	4572-6183	25	---	X2	S5	675	2 Dual Triode
7731	6.3	4520-6370	12	---	X4	S5	475	2 Dual Triode
7731	6.3	4590-1080	10	---	X10	S5	525	2 Dual Triode
7732	6.3	4310-5627	10	---	X4	S5	700	2 Dual Triode
7733	12.6	4520-7813	0	---	X10	S5	600	2 Dual Triode
7734	6.3	4580-9170	15	---	X2	S5	650	2 Dual Triode
7734	6.3	4530-6020	68	---	X4	S5	550	2 Dual Triode
7737	6.3	4520-7918	8	---	X10	S5	600	2 Dual Triode
7738	6.3	4320-1050	13	---	X10	S5	475	2 Dual Triode
7754	6.3	4560-9170	34	---	X4	S5	450	2 Dual Triode
7757	6.3	3560-0280	18	---	X4	S5	575	2 Dual Triode
7759	25.0	3672-8154	15	---	X10	S5	325	2 Dual Triode
7760	25.0	3672-8154	20	---	X4	S4	475	2 Dual Triode
7761	25.0	3610-5720	12	---	X4	S4	475	2 Dual Triode

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TUBE TYPE	FL	SELECTIONS	WAS	SHUNT	WALT	PRESS	WATT CONSD	NOTATIONS
7762	25.0	3610-5720	40	—	X4	S5	650	
7802	6.3	7841-5263	45	—	X20	S5	500	1Dual Triode
7803	6.3	4572-6183	20	—	X10	S5	775	1Dual Triode
7861	12.6	9173-6482	16	—	X10	S5	500	1Dual Triode
7867	6.3	7250-0830	26	—	X10	—	525	Cap-P, No. 11, 100-10
7868†	6.3	4560-9730	11	—	X10	S5	525	Cap-P, No. 11, 100-10
Model 752A:	25.0	No Adapter	Required.		X4	S5	400	1Dual Triode
7889	6.3	3672-8154	15	—	X10	S5	525	Cap-P, No. 11, 100-10
7895†	6.3	3140-2080	16	—	X10	S5	525	Cap-P, No. 11, 100-10
Model 752A:	6.3	AC40-2080	16	—	X10	S5	625	
7895	12.6	4572-6183	10	—	X10	S5	475	1Dual Triode
7898	6.3	9120-6807	15	—	X10	S5	325	
7905	12.6	1CA0-3890	46	—	X10	S5	350	
7984†	6.3	1430-7826	11	—	X10	S5	650	
7995	12.6	7250-0318	12	—	X10	S4	425	
8032	6.3	3100-2084	0	70	SH	S1	650	Cap-P, No. 11, 100-10
8056†	6.3	AC00-2084	0	70	SH	S1	650	Cap-P, No. 11, 100-10
Model 752A:	6.3	AC00-2084	0	70	SH	S1	650	Cap-P, No. 11, 100-10
8058†	6.3	1300-0020	13	—	X10	S5	625	Cap-P, No. 11, 100-10
Model 752A:	6.3	AC00-0020	13	—	X10	S5	625	Cap-P, No. 11, 100-10
8058	25.0	6310-5760	17	—	X4	S5	400	
8064	6.3	2750-0830	18	—	X10	S5	325	Cap-P
8068	12.6	4520-7813	0	—	X10	S5	600	
8077	12.6	3410-5627	17	—	X10	S5	400	
8084	6.3	6720-1050	21	—	X2	S5	300	
8096	12.6	4590-6780	11	—	X4	S5	625	Pent. Sect.
8102	12.6	4530-1020	13	—	X10	S5	525	Triode Sect.
8106	12.6	4570-1890	14	—	X10	S5	550	
8113	6.3	4310-5670	22	—	X4	S5	400	
8136	6.3	4310-5627	10	—	X10	S5	700	
8149†	12.6	1CA0-7890	50	—	X4	S5	700	Cap-P
8150†	12.6	1CA0-0880	50	—	X4	S5	625	
8156†	12.6	1CA0-3760	31	—	X4	S5	650	
8185	6.3	8120-3060	20	—	X20	S5	650	
8186	25.0	8120-3060	20	—	X20	S5	650	
8203†	6.3	3140-2080	26	—	X10	S5	300	Cap-P, No. 11, 100-10
Model 752A:	6.3	AC40-2080	26	—	X10	S5	300	Cap-P, No. 11, 100-10
8236	6.3	7210-0430	65	—	X4	S5	450	Cap-P
8298	6.3	7250-0318	12	—	X10	S4	425	Cap-P
8327	6.3	4520-7830	23	—	X10	S5	375	
8334	6.3	3460-7050	12	—	X10	S5	750	
8393†	12.6	3140-2080	24	—	X10	S5	500	Cap-P, No. 11, 100-10
Model 752A:	12.6	AC40-2080	24	—	X10	S5	500	Cap-P, No. 11, 100-10
8417	6.3	2750-03480	10	—	X20	S5	375	
8425	6.3	4310-5672	10	—	X10	S5	625	
8426	12.6	4310-5672	10	—	X10	S5	625	
8431	12.6	5472-6183	20	—	X20	S5	500	1Dual Triode

MODEL 752A

Supplementary Tube Test Data for Obsolete Tube Types

TUBE TYPE	FIL.	SELECTORS	BIAS	SHUNT	MULT.	PRESS	MIN. MUT.COND.	NOTATIONS	
1A4	2.0	4100-2300	18	---	X2	---	225	CAP=G. Hold down S1 and Press S5	
1A6	2.0	6100-2504	12	---	X2	---	225	Pent. Sect. CAP = G Hold down S1 and Press S5	
1A6	2.0	6140-3502	25	---	X1	S5	125	Osc. Sect.	
1AB5	1.1	8160-2300	0	---	X2	S5	375		
1B5	2.0	6150-2000	10	---	X1	S5	350	Triode Sect.	
1B5	2.0	6100-4300	0	40	SH	S1	400	X Dual Diode	
1B7	1.4	7200-3405	4	---	X2	---	300	Pent. Sect. CAP = G Hold down S1 and Press S5	
1B7	1.4	7250-6403	17	---	X2	---	200	Osc. Sect. Hold down S1 and Press S5	
1C6	2.0	6100-2534	13	---	X2	---	250	Ampl. Sect. CAP = G Hold down S1 and Press S5	
1C6	2.0	6140-3520	28	---	X1	S5	150	Osc. Sect.	
1C7	2.0	7200-3465	13	---	X2	---	250	Pent. Sect. CAP = G Hold down S1 and Press S5	
1C7	2.0	7250-6430	28	---	X1	S5	150	Osc. Sect.	
1C8	1.1	4520-7608	40	---	X1	S5	175		
1D7	2.0	7200-3465	12	---	X2	---	225	Pent. Sect. CAP = G Hold down S1 and Press S5	
1D7	2.0	7250-6430	25	---	X1	S5	125	Osc. Sect.	
1D8	1.4	7250-3460	18	---	X2	---	275	Pent. Sect. Hold down S1 and Press S5	
1D8	1.4	7200-6000	0	---	X1	S5	350	Triode Sect. CAP = G	
1D8	1.4	7200-8000	0	0	SH	S1	400	Diode Sect.	
1E4	1.4	7250-3000	25	---	X2	S5	375		
1E5	2.0	7200-3400	15	---	X1	S5	400	CAP = G	
1E7	2.0	7250-6834	11	---	X2	S5	350	Pent. No. 1	
1E7	2.0	7240-3865	11	---	X2	S5	350	Pent. No. 2	
1F4	2.0	5130-2400	22	---	X2	S5	425		
1F5	2.0	7250-3400	22	---	X2	S5	425		
1F6	2.0	6100-2300	8	---	X2	---	200	Pent. Sect. CAP = G Hold down S1 and Press S5	
1F6	2.0	6100-5400	8	0	SH	S1	400	X Dual Diode	
1F7	2.0	7200-3600	8	---	X2	---	200	Pent. Sect. CAP = G Hold down S1 and Press S5	
1F7	2.0	7200-4530	8	0	SH	S1	400	X Dual Diode	
1G4	1.4	7250-3000	48	---	X2	S5	250		
1G5	2.0	7250-3040	16	---	X2	---	475		
1G6	1.4	7254-6300	19	---	X2	S5	200	X Hold down S1 and Press S5	
1H4	2.0	7250-3000	40	---	X2	S5	275	Dual Triode	
1J5	2.0	7250-3400	46	---	X2	S5	300		
1J6	2.0	7254-6300	23	---	X2	S5	300	X Dual Triode	
11B6	1.4	8160-2437	Use this setting for Short Check only						
11B6	1.4	8160-3574	22	---	X1	S5	300		
1N6	1.4	7250-3400	40	---	X2	S5	250	Pentode Sect.	
1N6	1.4	7200-6000	0	0	SH	S1	400	Diode Sect.	
1P5	1.4	7200-3400	12	---	X2	S5	250	CAP = G	
1R4	1.4	8100-4070	0	48	SH	S1	400		

MODEL 752A

Supplementary Tube Test Data for Obsolete Tube Types

TUBE TYPE	FIL	SELECTORS	BIAS	SHUNT	MULT.	PRESS	MIN. MUT.COND.	NOTATIONS
1SA6	1.4	7240-8630	0	---	X2	---	250	Hold down S1 and Press
1SB6	1.4	7280-3400	12	---	X1	S5	400	Pentode Sect.
1SB6	1.4	7280-5000	0	0	SH	S1	400	Diode Sect.
1T5	1.4	7250-3400	44	---	X2	S5	350	
2A4	2.5	7250-3000	#	93	SH	S6	650	Strikes at about 44
2A5	2.5	6140-2350	23	---	X2	S5	625	
2A6	2.5	6100-2050	11	---	X4	S5	175	Triode Sect. CAP = G
2A6	2.5	6100-4350	11	32	SH	S1	400	X Dual Diode
2A7	2.5	7100-2365	0	---	X2	S4	300	Pent. Sect. CAP = G
2A7	2.5	7150-4362	22	---	X1	S5	225	Osc. Sect.
2B4	2.5	5130-2040	#	93	SH	S6	650	Strikes at about 58
2B6	2.5	7140-2360	18	---	X2	S5	475	
2B22	6.3	7200-0080	0	30	SH	S3	650	Top Washer = P
2C4	2.5	7130-5040	#	93	SH	S6	650	Strikes at about 72
2C22	6.3	7200-0080	23	---	X4	S5	475	Far CAP = G
								Near CAP = P
2C26	6.3	7200-0080	13	---	X2	S5	550	Right CAP = P
								Left CAP = G
2C40	6.3	7200-0080	20	---	X4	S5	425	CAP = P. Ring = G
2E5	2.5	6150-4030	0	100	SH	S5	---	Eye Open
2E5	2.5	6150-4230	0	100	SH	S5	---	Eye Closed
2V3	2.5	7200-0000	0	78	SH	S6	650	CAP = P
2W3	2.5	8200-4000	0	0	SH	S3	400	
2Z2	2.5	4100-2000	0	0	SH	S3	400	
3A8	2.5	7200-3400	17	---	X2	S5	225	Pentode Sect. CAP = G
3A8	2.5	7250-6000	0	---	X1	S5	175	Triode Sect.
3A8	2.5	7200-8000	0	32	SH	S1	400	Diode Sect.
3B5	2.5	7250-3400	33	---	X2	S4	425	
3B7	2.5	1860-7000	27	---	X2	S5	475	Triode No. 1
3B7	2.5	8130-2000	27	---	X2	S5	475	Triode No. 2
3C6	2.5	1850-6000	10	---	X2	S4	350	Triode No. 1
3C6	2.5	8140-3000	10	---	X2	S4	350	Triode No. 2
5AX4	5.0	8200-6000	0	36	SH	S3	400	Plate No. 1
5AX4	5.0	8200-4000	0	27	SH	S3	400	Plate No. 2
5X3	5.0	4100-3000	0	34	SH	S3	400	Plate No. 1
5X3	5.0	4100-2000	0	20	SH	S3	400	Plate No. 2
6A4	6.3	5130-2400	28	---	X2	S5	625	
6AB5	6.3	6150-4030	0	100	SH	S5	---	Eye Open
6AB5	6.3	6150-4230	0	100	SH	S5	---	Eye Closed
6AB6	6.3	7250-3480	0	---	X2	S5	450	
6AC6	6.3	7250-3480	0	---	X2	S5	750	
6AD6	6.3	7240-3580	0	100	SH	S5	---	Eye 1 Open, Eye 2 Closed
6AD6	6.3	7230-4580	0	100	SH	S5	---	Eye 2 Open, Eye 1 Closed
6AE5	6.3	7250-3080	72	---	X2	S5	375	
6AE6	6.3	7250-4083	0	---	X2	S5	225	Triode No. 1
6AE6	6.3	7250-3084	0	---	X2	S5	250	Triode No. 2
6AE7	6.3	7260-3084	33	---	X2	S5	475	Triode No. 1
6AE7	6.3	7240-3056	33	---	X2	S5	475	Triode No. 2
6AF5	6.3	7250-3080	52	---	X2	S5	475	

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MODEL 752A

Supplementary Tube Test Data for Obsolete Tube Types

TUBE TYPE	FIL.	SELECTORS	BIAS	SHUNT	MULT.	PRESS	MIN. MUT.COND.	NOTATIONS
6AH5	6.3	7260-4 $\frac{1}{2}$ 80	17	---	X10	S5	300	
6AJ7	6.3	7240-8653	15	---	X10	S5	375	
6AK7	6.3	7240-8651	12	---	X10	S5	475	
6AW7	6.3	7820-6010	10	---	X4	S5	175	Triode Sect.
6AW7	6.3	7800-3451	0	76	SH	S1	400	X Dual Diode
6AX6	6.3	7200-5384	0	58	SH	S3	650	X Dual Diode
6B5	6.3	6140-2350	0	---	X2	S5	525	
6B6	6.3	7200-3080	11	---	X4	S5	175	Triode Sect. CAP
6B6	6.3	7200-5480	11	32	SH	S1	400	X Dual Diode
6B8	6.3	7200-3681	22	---	X2	S5	300	Pent. Sect. CAP
6B8	6.3	7200-5481	22	32	SH	S1	400	X Dual Diode
6C7	6.3	7100-2060	26	---	X2	S5	375	Triode Sect. CAP
6C7	6.3	7100-5460	26	30	SH	S1	400	X Dual Diode
6C8	6.3	7205-3648	15	---	X2	S5	500	X Dual Triode. CAP
6D5	6.3	7250-3080	57	---	X2	S5	625	
6D7	6.3	7100-2364	21	---	X2	S5	375	CAP = G
6D8	6.3	7200-3485	0	---	X2	S4	300	Pent. Sect. CAP
6D8	6.3	7250-6483	22	---	X1	S5	225	Osc. Sect.
6E6	6.3	7153-6240	51	---	X2	S5	425	X Dual Triode
6E7	6.3	7100-2364	17	---	X2	S5	500	CAP = G
6G5	6.3	6150-4030	0	100	SH	S5	---	Eye Open
6G5	6.3	6150-4230	0	100	SH	S5	---	Eye Closed
6H4	6.3	7200-4080	0	73	SH	S1	400	
6K5	6.3	7200-3080	15	---	X4	S5	225	CAP = G
6N5	6.3	6150-4030	0	100	SH	S5	---	Eye Open
6N5	6.3	6150-4230	0	100	SH	S5	---	Eye Closed
6N6	6.3	7250-3480	0	---	X2	S5	525	
6P7	6.3	2300-4586	18	---	X2	S5	350	Pent. Sect. CAP =
6P7	6.3	2370-6084	35	---	X2	S5	150	Triode Sect.
6Q6	6.3	7200-3080	13	---	X2	S5	300	Triode Sect. CAP
6Q6	6.3	7200-5480	13	30	SH	S1	400	X Dual Diode
6SZ7	6.3	7820-6031	15	---	X4	S5	175	Triode Sect.
6SZ7	6.3	7800-5431	0	30	SH	S1	400	X Dual Diode
6T5	6.3	6150-4030	0	100	SH	S5	---	Eye Open
6T5	6.3	6150-4230	0	100	SH	S5	---	Eye Closed
6T7	6.3	7200-3080	13	---	X2	S5	300	Triode Sect. CAP
6T7	6.3	7200-5480	13	30	SH	S1	400	X Dual Diode
6U7	6.3	7200-3485	17	---	X2	S5	500	CAP = G
6V7	6.3	7200-3080	42	---	X2	S5	300	Triode Sect. CAP
6V7	6.3	7200-5480	42	30	SH	S1	400	X Dual Diode
6W5	6.3	7200-5380	0	20	SH	S3	650	X Dual Diode
6W7	6.3	7200-3485	21	---	X2	S5	375	CAP = G
6Y5	6.3	6100-5340	0	58	SH	S3	650	X Dual Diode
6Y7	6.3	7254-6380	13	---	X2	S5	300	X Dual Triode
6Z7	6.3	7254-6380	14	---	X2	S5	375	X Dual Triode
7AB7	6.3	7250-3140	10	---	X4	S5	250	
7AJ7	6.3	8160-2374	8	---	X4	S5	350	
7B5	6.3	8160-2370	17	---	X4	S5	375	
7B6	6.3	8130-2070	11	---	X4	S5	175	Triode Sect.
7B6	6.3	8100-6572	0	30	SH	S1	400	X Dual Diode

MODEL 752A

Supplementary Tube Test Data for Obsolete Tube Types

TUBE	TYPE	FIL.	SELECTORS	BIAS	SHUNT	MULT.	PRESS	MIN. MUT.COND.	NOTATIONS
7B8		6.3	8160-2574	0	---	X2	S4	300	Pent. Sect.
7B8		6.3	8140-3576	22	---	X1	S5	225	Osc. Sect.
7C4		6.3	8100-4070	0	70	SH	S1	400	
7G8		6.3	8150-7362	11	---	X4	S5	325	Tetrode No. 1
7G8		6.3	8140-2367	11	---	X4	S5	325	Tetrode No. 2
7S7		6.3	8160-2574	16	---	X2	S5	475	Heptode Sect.
7S7		6.3	8140-3075	14	---	X2	S5	525	Triode Sect.
7T7		6.3	8160-2374	10	---	X4	S5	475	
10		7.5	4130-2000	44	---	X2	S5	375	
10Y		7.5	4130-2000	44	---	X2	S5	375	
12A		5.0	4130-2000	48	---	X2	S5	525	
12A5		12.6	7140-2350	38	---	X2	S5	550	
12A6		12.6	7250-3481	18	---	X4	S5	475	
12B8		12.6	7200-3410	18	---	X4	S5	275	Pent. Sect. CAP = G
12B8		12.6	7280-5060	7	---	X4	S5	300	Triode Sect.
12F5		12.6	7200-4080	12	---	X4	S5	225	CAP = G
12SW7		12.6	7820-6031	21	---	X2	S5	600	Triode Sect.
12SW7		12.6	7800-5436	0	30	SH	S1	400	X Dual Diode
12SX7		12.6	7841-5263	23	---	X4	S5	400	X Dual Triode
12SY7		12.6	7280-3465	10	---	X4	---	150	Ampl. Sect. Hold down S1 and Press S5
12SY7		12.6	7250-4068	22	---	X4	S5	625	Osc. Sect.
.2Z3		12.6	4100-2030	0	35	SH	S3	650	
.2Z5		6.3	6100-5040	0	30	SH	S3	650	Plate No. 1
.2Z5		6.3	2100-3040	0	30	SH	S3	650	Plate No. 2
.4A4		12.6	8160-2070	23	---	X4	S5	400	
.4A5		12.6	8160-2370	18	---	X4	S5	475	
.4E7		12.6	8160-2570	20	---	X4	S5	200	Pent. Sect.
.4E7		12.6	8100-4372	0	30	SH	S1	400	X Dual Diode
.4Z3		12.6	4100-2030	0	35	SH	S3	650	
5		2.0	5100-2340	0	---	X2	---	225	CAP = G. Hold down S1 and Press S5
9		2.0	6143-5200	23	---	X2	S5	300	X Dual Triode
K20A		7.5	5130-0240	0	---	X2	S5	625	CAP = P
2		3.0	4100-2300	0	---	X1	S5	300	CAP = G
4A		2.5	5100-2340	25	---	X2	S5	300	CAP = G
T25A		7.5	4130-2000	44	---	X2	S5	375	
5A7		25.0	7250-3486	32	---	X2	S5	550	Pent. Sect.
5A7		25.0	7200-6013	0	40	SH	S3	650	Rect. Sect.
5AC5		25.0	7250-3080	0	---	X2	S5	475	
5B5		25.0	6140-2350	0	---	X2	S5	625	
5B6		25.0	7250-3480	20	---	X10	S4	300	
5B8		25.0	7200-3410	18	---	X4	S5	275	Pent. Sect. CAP = G
5B8		25.0	7280-5060	7	---	X4	S5	300	Triode Sect.
5D8		25.0	7200-3410	18	---	X4	S5	300	Pent. Sect. CAP = G
5D8		25.0	7250-6010	12	---	X4	S5	175	Triode Sect.
5D8		25.0	7200-8010	12	53	SH	S1	400	Diode Sect.

MODEL 752A

Supplementary Tube Test Data for Obsolete Tube Types

TUBE TYPE	FIL.	SELECTORS	BIAS	SHUNT	MULT.	PRESS	MIN. MUT.COND.	NOTATIONS
25N6	25.0	7250-3480	0	---	X2	S5	625	
25T	6.3	4130-0000	0	---	X2	S5	275	CAP = P
25Y5	25.0	6100-5243	0	30	SH	S3	650	X Dual Diode
25Z3	25.0	6100-5243	0	30	SH	S3	650	X Dual Diode
25Z4	25.0	7200-5080	0	50	SH	S3	650	
25Z5	25.0	6100-5243	0	30	SH	S3	650	X Dual Diode
26	1.4	4130-2000	39	---	X2	S5	350	
27	2.5	5130-2040	41	---	X2	S5	300	
30	2.0	4130-2000	43	---	X2	S5	275	
31	2.0	4130-2000	41	---	X2	S5	275	
32L7	35.0	7250-3480	16	---	X10	S4	300	Pent. Sect.
32L7	35.0	7200-6013	0	45	SH	S3	650	Rect. Sect.
33	2.0	5130-2400	27	---	X2	S5	400	
RK33	6.3	7104-3526	35	---	X2	S5	425	X Dual Triode. CAP = G
34	2.0	4100-2300	16	---	X2	---	175	CAP = G. Hold down S1 and Press S5
35	2.5	5100-2340	20	---	X2	S5	300	CAP = G
35A5	35.0	8160-2370	0	---	X10	S4	300	
35Z4	35.0	7200-5080	0	50	SH	S3	650	
35Z6	35.0	7200-5384	0	50	SH	S3	650	X Dual Diode
36	6.3	5100-2340	31	---	X2	S5	325	CAP = G
37	6.3	5130-2040	42	---	X2	S5	275	
38	6.3	5100-2340	35	---	X2	S5	325	CAP = G
39/44	6.3	5100-2340	25	---	X2	S5	300	CAP = G
40	5.0	4130-2000	20	---	X1	S5	125	
40Z5	50.0	7200-5080	0	53	SH	S3	650	
41	6.3	6140-2350	17	---	X4	S5	375	
42	6.3	6140-2350	23	---	X2	S5	625	
43	25.0	6140-2350	18	---	X4	S5	350	
45Z3	50.0	7100-2040	0	44	SH	S3	650	
45Z5	50.0	7200-5080	0	53	SH	S3	650	
46	2.5	5130-2400	0	---	X2	S5	625	
47	2.5	5130-2400	0	---	X2	S5	625	
48	25.0	6140-2350	45	---	X2	S5	625	
49	2.0	5130-2400	49	---	X2	S5	350	
50	7.5	4130-2000	60	---	X2	S5	475	
50Y6	50.0	7200-5384	0	45	SH	S3	650	X Dual Diode
50Z7	50.0	7200-5384	0	45	SH	S3	650	X Dual Diode
51/51S	2.5	5100-2340	20	---	X2	S5	325	CAP = G
HD51	OFF	0000-5020	---	---	VR	S9	150 V. (155V. Regulation = 2 (from 5 to 30 MA.
57A	6.3	6100-2354	21	---	X2	S5	375	CAP = G
58A/58AS	6.3	6100-2354	17	---	X2	S5	500	CAP = G
VT67	2.0	4130-2000	43	---	X2	S5	275	
HY65	6.3	7250-0408	0	---	X4	S5	425	CAP = P
HY69	6.3	5130-0240	0	---	X4	S5	475	CAP = P
70A7	75.0	7250-3480	80	---	X4	S5	475	Pent. Sect.
70A7	75.0	7200-1000	0	58	SH	---	650	Rect. Sect. Reverse M Hold down S7 and Pres.

MODEL 752¹

Supplementary Tube Test Data for Obsolete Tube Types

TUBE TYPE	FIL.	SELECTORS	BIAS	SHUNT	MULT.	PRESS	MIN. MUT.COND.	NOTATIONS
71A	5.0	4130-2000	69	---	X2	S5	525	
79	6.3	6103-5240	13	---	X2	S5	300	X Dual Triode. CAP = G
81	7.5	4100-2000	0	0	SH	S3	400	
82	2.5	4100-3200	0	55	SH	S3	650	X Dual Diode
85	6.3	6100-2050	42	---	X2	S5	300	Triode Sect. CAP = G
85	6.3	6100-4352	42	30	SH	S1	400	X Dual Diode
85AS	6.3	6100-2050	26	---	X2	S5	375	Triode Sect. CAP = G
85AS	6.3	6100-4352	26	30	SH	S1	400	X Dual Diode
99	3.0	4130-2000	20	---	X1	S5	250	
112A	5.0	4130-2000	48	---	X2	S5	525	
CK113	50.0	7250-3486	32	---	X2	S5	550	Pent. Sect.
CK113	50.0	7200-6013	0	40	SH	S3	650	Rect. Sect.
HY114	1.4	7200-0000	22	---	X2	S5	350	Right CAP = P. Left CAP = G
11724	117.0	7200-5080	0	50	SH	S3	650	
183	5.0	4130-2000	79	---	X2	S5	475	
244A	2.0	5130-2040	42	---	X2	S5	150	
257A	3.0	4100-2000	16	---	X1	S5	300	CAP = G
259A	2.0	5100-2340	19	---	X2	S5	250	CAP = G
264C	1.4	4130-2000	20	---	X1	S5	300	
271A	5.0	5130-2040	32	---	X4	S5	400	
283A	2.0	5100-2340	28	---	X2	S5	300	CAP = G
285A	2.0	5100-2340	31	---	X2	S5	300	CAP = G
310A	10.0	6100-2354	20	---	X2	S5	475	CAP = G
311A	10.0	5100-2340	31	---	X2	S5	700	CAP = G
482A	5.0	4130-2000	79	---	X2	S5	475	
482B	5.0	4130-2000	58	---	X2	S5	475	
483	5.0	4130-2000	79	---	X2	S5	475	
485	3.0	5130-2040	37	---	X2	S5	400	
CK505AX	0.6	3540-1200	17	---	X1	S5	100	
CK510AX	0.6	4710-2306	0	0	SH	S6	50	Sect. No. 1
CK510AX	0.6	4760-5301	0	0	SH	S6	50	Sect. No. 2
CK556AX	1.1	4230-1000	26	---	X2	S5	500	
CK568AX	1.1	4230-1000	38	---	X2	S5	200	
CK569AX	1.1	3540-1200	8	---	X1	S5	525	
CK571AX	1.1	3470-1200	57	---	X1	S5	100	
CK573AX	1.1	2430-1000	34	---	X2	S5	625	
CK574AX	0.6	3540-1200	15	---	X1	S5	100	
CK605CX	6.3	3470-1265	10	---	X4	S5	675	
CK606BX	6.3	2300-1040	0	80	SH	S1	400	
CK608CX	6.3	3450-1060	22	---	X10	S5	300	
CK619CX	6.3	2340-1050	7	---	X10	S5	250	
717A	6.3	7240-8631	8	---	X4	S5	475	
814	10.0	5130-0240	0	---	X2	S5	750	CAP = P. Fuse lamp will glow brightly
SD828A	6.3	4630-1520	22	---	X4	S5	300	
SD828E	6.3	4630-0512	12	---	X10	S5	325	TOP LEAD = P
834	7.5	4100-0000	0	---	X2	S5	525	Near CAP = G Far CAP = P

MODEL 752 A

Supplementary Tube Test Data for Obsolete Tube Types

TUBE TYPE	FIL.	SELECTORS	BIAS	SHUNT	MULT.	PRESS	MIN. MUT.COND.	NOTATIONS
SD917A	6.3	3420-1050	10	---	X4	S4	425	
SN944	6.3	4630-0512	12	---	X4	S5	375	Top Lead = P
SN946B	6.3	2300-1040	0	80	SH	S1	400	
SN947D	6.3	3610-5780	44	---	X10	S5	300	
SN949C	6.3	3670-1052	#	50	SH	S3	650	Strikes at about 78
SN953D	6.3	3610-5720	15	---	X10	S5	350	
SN954	6.3	4200-1030	0	0	SH	S3	650	
SN954B	6.3	3600-2050	0	0	SH	S3	650	
SN956B	1.1	1200-0000	0	---	X1	S3	400	Top Lead = P. Connec Fil. leads to Pins 1
SN957A	6.3	5340-1020	25	---	X4	S5	425	
SN972D	6.3	3610-5740	13	---	X4	S5	475	
SN973B	6.3	3610-5740	16	---	X4	S5	475	
SN976C	6.3	3610-5780	44	---	X10	S5	300	
SD993C	6.3	3610-8050	19	---	X10	S5	300	
SD995B	6.3	3610-5740	13	---	X4	S5	475	
FML000	6.3	8120-4536	0	---	X2	S5	225	Grid No. 1
FML000	6.3	8160-4532	0	---	X2	S5	275	Grid No. 2
1005	6.3	6800-3050	0	93	SH	S6	650	Plate No. 1
1005	6.3	6800-5030	0	93	SH	S6	650	Plate No. 2
SN1006	6.3	5340-1200	9	---	X4	S4	225	
CK1027	OFF	0000-4070	0	91	SH	S6	650	CAP = P
El148	6.3	7200-0080	12	---	X4	S5	360	Upper CAP = P Lower CAP = G
1247	0.6	4500-0000	0	0	SH	S1	400	Top Lead = P
HY1269	12.6	5130-0240	0	---	X10	S5	275	CAP = P. Short on 1-
1291	2.5	1860-7000	27	---	X2	S5	475	Triode No. 1
1291	2.5	8130-2000	27	---	X2	S5	475	Triode No. 2
1602	7.5	4130-2000	44	---	X2	S5	375	
1616	4.3	4100-0000	0	30	SH	S2	650	CAP = P
1625	12.6	7140-0360	28	---	X4	S5	600	CAP = P
1626	12.6	7250-3080	46	---	X2	S5	650	
1629	12.6	7250-4080	0	100	SH	S5	---	Eye Open
1629	12.6	7250-4380	0	100	SH	S5	---	Eye Closed
1641	5.0	4100-0000	0	28	SH	S3	650	Left CAP = P
1641	5.0	1400-0000	0	28	SH	S3	650	Right CAP = P
1650	6.3	6140-3070	24	---	X2	S5	600	
1654	1.4	1700-0000	0	67	SH	S6	650	CAP = P
5517	OFF	0000-4070	0	40	SH	S2	650	CAP = P
5591	6.3	4310-5620	10	---	X4	S5	675	
5603	6.3	2740-8623	42	---	X4	S5	625	
5608A	2.5	7153-6240	17	---	X2	S5	475	X Dual Triode
5823	OFF	0000-1030	0	91	SH	S6	650	Place a 1 megohm $\frac{1}{2}$ watt resistor across pins 1 and 4 in Loctal socket
5901	6.3	3610-5740	16	---	X4	S5	475	
7193	6.3	7200-0080	23	---	X4	S5	475	Far Cap = G Near Cap = P

MODEL 752A

Supplementary Tube Test Data for Obsolete Tube Types

TUBE TYPE	FIL.	SELECTORS	BIAS	SHUNT	MULT.	PRESS	MIN. MUT. COND.	NOTATIONS
8005	10.0	4130-0000	0	---	X4	S5	400	CAP = P
38142	7.5	4130-2000	37	---	X2	S5	625	
XXB	2.5	1850-6000	10	---	X2	S4	350	Triode No. 1
XXB	2.5	8140-3000	10	---	X2	S4	350	Triode No. 2
XXD	12.6	8154-6372	27	---	X4	S5	325	X Dual Triode
XXFM	6.3	8130-2040	11	---	X4	S5	150	Triode Sect.
XXFM	6.3	8100-5647	0	77	SH	S1	400	X Dual Diode
XXL	6.3	8160-2070	23	---	X4	S5	400	

OPERATING DATA
FOR THE
MODEL CA-4 ADAPTER
WHEN USED WITH
MODEL 752
ROLL CHART TUBE TESTER



IDUAL TEST. For dual triodes make normal Leakage test first then repeat Leakage test for 2nd section with S8 pressed. Proceed with 1st section GM test. On all dual tubes, for 2nd section test press S8 with button listed in the press column.

*Verify shorts by setting filament switch to OFF position.

★Approximate starting voltage for voltage regulator tubes.

†Read 0-100 milliamperes with S9 pressed.

VR. For voltage regulator tubes the figure in the **MINIMUM MUT. COND.** column indicates the nominal operating voltage.

#Set **BIAS** to 100, press proper button, then rotate **BIAS** dial counterclockwise until tube strikes.

INSTRUCTIONS FOR USING THE MODEL CA-4 COMPACTRON ADAPTER

WITH A ROLL-CHART TUBE TESTER

The Hickok Model CA-4 Compactron Adapter is used in conjunction with Hickok CARDMATIC and Roll-Chart tube testers to test Compactrons, Novars, 5 and 7-pin Nuvistors, and 10-pin header tubes.

The CA-4 Adapter consists of:

- Eight (8) rotary switches which are used to select the pins of each individual element of the tube to be tested.
- Five (5) tube sockets.
- Three (3) jacks labeled "G", "P", and "K" which are used for connection to the tube top cap.
- A test plug which is connected to the CA-4 by a cable. This test plug is inserted into the octal socket of the tube tester that is to be used with the CA-4. The following table lists the pin numbers of the test plug and the associated tube element switch.

OCTAL PLUG PIN NUMBER	TUBE ELEMENT SWITCH
1	FILAMENT
2	FILAMENT
3	GRID A
4	GRID B
5	PLATE
6	SCREEN
7	CATHODE
8	SUPPRESSOR

The tube element switch settings on the adapter are connected in parallel with the pins of each tube socket mounted on the CA-4. The following table lists the switch and the associated pin number of the tube sockets.

SWITCH SETTINGS	PIN NUMBERS
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
A	11
B	12
C	No Connection
D	No Connection
0	No Connection

The three jacks marked "G", "P", and "K" located on the left side of the adapter are internally connected to their respective element switch (grid, plate, and cathode). They are used for cap connections (test lead supplied). The proper top cap connection is indicated in the NOTATIONS column of the chart on the following pages.

CAUTION

When using the CA-4 with a Roll-Chart tube tester set the ele-

MODEL 752 TUBE TESTER

Supplementary Data - CA-4 Adapter
NOTE: When using CA-4 Adapter, set Tester Selectors to 1234-5678

TUBE TYPE	FIL	ADAPTER SELECTORS	BIAS	SHUNT	MULT.	PRESS	MIN MUT. COND.	NOTATIONS
1AD2	1.4	1C00-0000	0	53	SH	S6	400	CAP = P on Adapter
2A82	2.5	1C00-0000	0	79	SH	S6	400	CAP = P on Adapter
2AS2	2.5	1C00-0000	0	81	SH	S6	400	CAP = P on Adapter
2CW4	2.0	AC40-2080	10	---	X10	S4	575	
2DS4	2.0	AC40-2080	9	---	X10	S4	600	
2DV4	2.0	AC60-1070	13	---	X10	S4	700	
3AT2	3.0	1C00-0000	0	86	SH	S6	400	CAP = P on Adapter
3AW2	3.0	2C00-0000	0	87	SH	S6	400	CAP = P on Adapter
4HA7	4.3	1C90-A040	22	---	X4	S5	475	Triode No. 1
4HA7	4.3	1C90-A040	14	---	X4	S5	200	Triode No. 2
4HC7	4.3	1C90-A040	14	---	X10	S5	300	Triode No. 1
4HC7	4.3	1C90-A040	12	---	X1	S5	550	Triode No. 2
5BC3	5.0	1300-0000	0	40	SH	S3	650	Plate No. 1
5BC3	5.0	1300-0000	0	35	SH	S3	650	Plate No. 2
5HA7	5.0	1C90-A040	22	---	X4	S5	475	Triode No. 1
5HA7	5.0	1C90-A040	14	---	X4	S5	200	Triode No. 2
5HC7	5.0	1C90-A040	14	---	X10	S5	300	Triode No. 1
5HC7	5.0	1C90-A040	12	---	X1	S5	550	Triode No. 2
6AC9	6.3	1C90-BA87	11	---	X10	S5	450	Pentode Sect.
6AC9	6.3	1C90-3040	0	87	SH	S1	400	Diode No. 1
6AC9	6.3	1C00-2030	0	87	SH	S1	400	Diode No. 2
6AC10	6.3	1C90-A040	11	---	X10	S5	450	Triode No. 1
6AC10	6.3	1C7B-5263	11	---	X10	S5	450	Triodes No. 1 and No. 3
6AD10	6.3	1C30-7625	17	---	X2	S5	550	Pentode No. 1
6AD10	6.3	1C90-BA90	10	---	X10	S5	450	Pentode No. 2
6AP11	6.3	1C90-2A90	12	---	X10	S5	450	Pentode Sect.
6AP11	6.3	1C60-8050	14	---	X4	S5	700	Triode No. 1
6AP11	6.3	1C30-4070	11	---	X4	S5	500	Triode No. 2
6AG11	6.3	1C83-7649	12	---	X10	S5	325	Dual Triode
6AG11	6.3	1C00-A3B2	0	80	SH	S1	400	Dual Diode
6AL11	6.3	1C80-BA90	19	---	X10	S5	400	Pentode No. 1
6AL11	6.3	1C30-6724	22	---	X2	S5	300	Pentode No. 2
6AR11	6.3	1CA0-89B7	5	---	X10	S5	550	Pentode No. 1
6AR11	6.3	1C50-2364	5	---	X10	S5	550	Pentode No. 2
6AS11	6.3	1C90-2A90	15	---	X10	S5	325	Pentode Sect.
6AS11	6.3	1C60-8050	11	---	X10	S5	500	Triode No. 1
6AS11	6.3	1C30-4070	16	---	X4	S5	600	Triode No. 2
6AV11	6.3	1C97-A546	23	---	X2	S5	750	Triodes No. 1 and 2
6AV11	6.3	1C90-2030	23	---	X2	S5	750	Triode No. 3
6AY3	6.3	4500-2090	0	52	SH	S3	650	Dual Triode
6AY11	6.3	1C85-7694	13	---	X1	S5	650	Dual Diode
6AY11	6.3	1C00-A3B2	0	78	SH	S1	400	Dual Triode
6B10	6.3	1C53-6472	23	---	X4	S5	475	Dual Diode
6B10	6.3	1C00-A090	0	73	SH	S1	400	Dual Diode
6BA3	6.3	4500-2090	0	57	SH	S3	650	Pentode No. 1
6BA11	6.3	1C40-6387	10	---	X1	S5	325	Pentode No. 2
6BA11	6.3	1C40-2385	10	---	X1	S5	325	Triode Sect.
6BD11	6.3	1C90-B0A0	30	---	X2	S5	550	Triode Sect.
6BD11	6.3	1C90-2A90	15	---	X10	S5	450	Pentode Sect.
6BD11	6.3	1C60-8050	14	---	X4	S5	800	Triode No. 1
6BD11	6.3	1C30-4070	14	---	X4	S5	700	Triode No. 2
6BE3	6.3	1C00-A070	0	58	SH	S3	650	

MODEL 752 TUBE TESTER

NOTE: When using CA-4 Adapter, set Tester Selectors to 1234-5678

TUBE TYPE	FIL	ADAPTER SELECTORS	BIAS	SHUNT	MULT.	PRESS	MUT. COND.	NOTATIONS
6BF11	6.3	1C80-BA90	30	---	X10	S5	375	Pentode No. 1
6BF11	6.3	1C30-7625	17	---	X2	S5	200	Pentode No. 2
6BH11	6.3	4500-2030	0	52	SH	S3	650	Pentode Sect.
6BH11	6.3	1C80-A930	10	---	X10	S5	350	X Dual Triode
6BH11	6.3	1C64-7352	15	---	X10	S5	550	
6BD3	6.3	1C90-A070	0	60	SH	S3	650	Triode No. 1
6BK11	6.3	1C90-A040	21	---	X2	S5	250	X Dual Triode
6BK11	6.3	1C7B-5263	20	---	X2	S5	200	Pentode No. 1
6BN11	6.3	1C70-B38A	10	---	X10	S5	475	Pentode No. 2
6BN11	6.3	1C30-5426	10	---	X10	S5	475	
6BS3	6.3	4500-2090	0	60	SH	S3	400	
6C9	6.3	4570-3660	16	---	X4	S5	700	Tetrode No. 1
6C9	6.3	4510-32A0	16	---	X4	S5	700	Tetrode No. 2
6C10	6.3	1C97-A545	14	---	X4	S5	200	X Triodes No. 1 and 2
6C10	6.3	1C80-2030	14	---	X4	S5	200	Triode No. 3
6CD3	6.3	1C00-A070	0	63	SH	S3	650	
6CE3	6.3	1C00-4070	0	65	SH	S3	650	
6CG3	6.3	1C00-4070	0	78	SH	S3	400	
6CJ3	6.3	4500-2030	0	78	SH	S3	400	
6CW4	6.3	AC40-2080	10	---	X10	S4	375	
6D10	6.3	1C97-A546	15	---	X4	S5	300	X Triodes No. 1 and 2
6D10	6.3	1C80-2030	15	---	X4	S5	500	Triode No. 3
6DS4	6.3	AC40-2080	9	---	X10	S4	690	
6DV4	6.3	AC60-1070	13	---	X10	S4	700	
6DW4	6.3	4500-2090	0	55	SH	S3	650	
6FJ7	6.3	1CA0-B080	20	---	X2	S5	775	Triode No. 1
6FJ7	6.3	1C30-5070	18	---	X10	S5	575	Triode No. 2
6FM7	6.3	1CA0-B090	20	---	X2	S5	300	Triode No. 1
6FM7	6.3	1C80-5070	61	---	X4	S5	725	Triode No. 2
6FV7	6.3	1CA0-B090	21	---	X2	S5	225	Triode No. 1
6FV7	6.3	1C30-5070	59	---	X10	S5	475	Triode No. 2
6G11	6.3	1C80-BA90	39	---	X4	S5	650	Pentode No. 1
6G11	6.3	1C30-6724	20	---	X2	S5	150	Pentode No. 2
6GA7	6.3	1C40-7350	49	---	X4	S5	700	Pentode Sect.
6GE7	6.3	1C00-B080	0	43	SH	S3	400	Diode Sect.
6GE7	6.3	1C00-72A0	50	---	X10	S5	300	
6GF7	6.3	1C90-72A0	59	---	X4	S5	625	
6GF7	6.3	4590-8010	20	---	X2	S5	250	Triode No. 1
6GF7	6.3	4520-6030	64	---	X10	S5	450	Triode No. 2
6GJ5	6.3	4560-0730	31	---	X10	---	450	CAP = P on Adapter
6GT5	6.3	4560-9730	31	---	X10	---	450	Hold down SI and Press S5
6GV5	6.3	1C90-0BA0	47	---	X10	S5	350	Hold down SI and Press S5
6GY5	6.3	1C50-07A0	32	---	X10	---	675	CAP = P on Adapter
6H5	6.3	1C80-72A0	59	---	X4	S5	625	Hold down SI and Press S5
6H5	6.3	1C80-79A0	52	---	X10	S5	400	
6HE5	6.3	1C90-5A90	29	---	X4	S5	750	
6HE7	6.3	1C90-5R80	58	---	X10	S5	200	
6HE7	6.3	1C00-2040	0	85	SH	S1	500	Pentode Sect.
6HF5	6.3	1C90-0BA0	70	---	X4	S5	500	Diode Sect.
6HJ5	6.3	1C80-792A	53	---	X10	S5	350	CAP = P on Adapter
6J9	6.3	4579-86A0	15	---	X4	S5	750	X Triodes No. 1 and 2
6J9	6.3	4520-1030	15	---	X4	S5	750	Triode No. 3

MODEL 752 TUBE TESTER

NOTE: When using CA-4 Adapter, set Tester Selectors to 1234-5678

TUBE TYPE	FIL	ADAPTER SELECTORS	BIAS	SHUNT	MULT.	PRESS	MUT. COND.	NOTATIONS
6J10	6.3	1C70-4685	0	---	X1	S5	500	Pentode No. 1
6J10	6.3	1C80-9230	20	---	X10	S5	375	Pentode No. 2
6J11	6.3	1C80-978A	12	---	X4	S5	800	Pentode No. 1
6J11	6.3	1C50-3264	12	---	X4	S5	800	Pentode No. 2
6JB6	6.3	4520-0138	31	---	X10	---	450	CAP = P on Adapter
6JE6	6.3	4520-0738	42	---	X10	---	575	Hold down SI and Press S5
6JE6	6.3	4520-0738	42	---	X10	---	575	Hold down SI and Press S5
6JF8	6.3	4520-0738	36	---	X10	---	550	CAP = P on Adapter
6JF8	6.3	4520-0738	36	---	X10	---	550	Hold down SI and Press S5
6JG6	6.3	4520-9738	36	---	X10	---	550	CAP = P on Adapter
6JM6	6.3	1C50-032A	48	---	X10	S5	350	
6JN6	6.3	1C80-7324	48	---	X10	S5	350	
6JS6A	6.3	1C50-032A	68	---	X4	S5	600	
6JW6	6.3	4520-9738	47	---	X10	S5	275	
6JZ8	6.3	1C70-4690	34	---	X10	S5	300	Pentode Sect.
6JZ8	6.3	1CA0-20B0	32	---	X2	S5	450	Triode Sect.
6K11	6.3	1C90-A048	25	---	X2	S5	675	Triode No. 1
6K11	6.3	1C7B-5263	14	---	X4	S5	200	X Triode No. 2 and 3
6KD6	6.3	1C50-032A	75	---	X4	S5	375	CAP = P on Adapter
6KM6	6.3	4520-0738	72	---	X4	S5	350	CAP = P on Adapter
6KN6	6.3	1C50-032A	68	---	X4	S5	500	CAP = P on Adapter
6KY8	6.3	4520-6730	39	---	X10	S5	300	Pentode Sect.
6KY8	6.3	4590-8010	16	---	X2	S5	350	Triode Sect.
6LR8	6.3	4520-6730	40	---	X10	S5	350	Pentode Sect.
6LR8	6.3	4590-8010	21	---	X4	S5	350	Triode Sect.
6LU8	6.3	1C60-4890	40	---	X10	S5	350	Pentode Sect.
6LU8	6.3	1CA0-20B0	21	---	X4	S5	350	Triode Sect.
6M11	6.3	1C20-B3A0	10	---	X10	S5	550	Pentode Sect.
6M11	6.3	1C85-7694	16	---	X10	S5	375	X Dual Triode
6MD8	6.3	4560-3070	27	---	X4	S5	575	Triode No. 1
6MD8	6.3	4589-2170	27	---	X4	S5	575	X Triode No. 2 and No. 3
6Q11	6.3	1C90-A048	25	---	X2	S5	875	Triode No. 1
6Q11	6.3	1C7B-5263	14	---	X4	S5	200	X Triode No. 2 and No. 3
6R9	6.3	1C80-BA90	12	---	X10	S5	450	Pentode Sect.
6R9	6.3	1C40-2030	16	---	X4	S5	200	Triode Sect.
6T10	6.3	1C80-BA90	20	---	X10	S5	375	Pentode No. 1
6T10	6.3	1C30-7625	15	---	X2	S5	200	Pentode No. 2
6U10	6.3	1C9B-A243	27	---	X2	S5	625	X Triodes No. 1 and 3
6U10	6.3	1C70-5060	20	---	X2	S5	175	Triode No. 2
6Y10	6.3	1C80-BA90	21	---	X4	S5	750	Pentode No. 1
6Y10	6.3	1C30-7625	13	---	X2	S5	575	Pentode No. 2
6Z10	6.3	1C70-4685	0	---	X1	S5	500	Pentode No. 1
6Z10	6.3	1C80-9230	20	---	X10	S5	375	Pentode No. 2
8AC9	7.5	1C90-BA87	11	---	X10	S5	450	Pentode Sect.
8AC9	7.5	1C00-3040	0	87	SH	S1	400	Diode No. 1
8AC9	7.5	1C00-2030	0	87	SH	S1	400	Diode No. 2
8AR11	7.5	1CA0-99B7	5	---	X10	S5	550	Pentode No. 1
8AR11	7.5	1C50-2364	5	---	X10	S5	550	Pentode No. 2
8B10	7.5	1C53-6472	24	---	X2	S5	600	X Dual Triode Set "Line Adjust"
8B10	7.5	1C80-A890	0	70	SH	S1	400	X Dual Triode Set "Line Adjust"
8BA11	7.5	1C40-8387	10	---	X1	S5	325	Pentode No. 1
8BA11	7.5	1C40-2365	10	---	X1	S5	325	Pentode No. 2
8BA11	7.5	1C90-80A0	30	---	X2	S5	550	Triode Sect.

MODEL 752 TUBE TESTER

NOTE: When using CA-4 Adapter, set Tester Selectors to 1234-5678

TUBE TYPE	FTL	ADAPTER SELECTORS	BIAS	SHUNT	MULT.	PRESS	MIN. MUT. COND.	NOTATIONS
8BM11	7.5	1CB0-79A8	10	---	X10	S5	400	Pentode No. 1
8BM11	7.5	1C80-2354	12	---	X10	S5	350	Pentode No. 2
8BQ11	7.5	1CA0-89B7	8	---	X10	S5	500	Pentode No. 1
8BQ11	7.5	1C50-2364	8	---	X10	S5	630	Pentode No. 2
8BU11	7.5	1C80-A9B0	10	---	X4	S5	700	Pentode Sect.
8BU11	7.5	1C64-7352	16	---	X10	S5	450	Dual Triode
9BJ11	10.0	1CB0-79A8	10	---	X2	S5	500	Pentode No. 1
9BJ11	10.0	1C80-2354	12	---	X10	S5	450	Pentode No. 2
10AL11	10.0	1C80-BA90	19	---	X10	S5	400	Pentode No. 1
10AL11	10.0	1C30-6724	22	---	X2	S5	300	Pentode No. 2
10GF7	10.0	4590-8010	20	---	X2	S5	250	Triode No. 1
10GF7	10.0	4520-6030	64	---	X10	S5	450	Triode No. 2
10J10	10.0	1C70-4685	0	---	X1	S5	500	Pentode No. 1
10J10	10.0	1CB0-9230	20	---	X10	S5	375	Pentode No. 2
11AR11	12.6	1CA0-89B7	5	---	X10	S5	525	Pent. No. 1) Set "Line Adjust"
11AR11	12.6	1C50-2364	5	---	X10	S5	525	Pent. No. 2) to 675 on 1500 scale.
11BQ11	12.6	1CA0-89B7	10	---	X10	S5	350	Pentode No. 1) Set "Line Ad-
11BQ11	12.6	1C50-2364	10	---	X10	S5	375	Pentode No. 2) just to 86 on 200 scale.
11BT11	10.0	1CB0-2A96	10	---	X20	S5	475	Pentode Sect.
11BT11	10.0	1C80-7060	12	---	X4	S5	850	Triode No. 1
11BT11	10.0	1C30-9040	20	---	X4	S5	750	Triode No. 2
11F77	10.0	1CA0-B090	21	---	X2	S5	225	Triode No. 1
11F77	10.0	1C30-5070	59	---	X10	S5	475	Triode No. 2
12AE10	12.6	1C80-BA90	25	---	X4	S5	425	Pentode No. 1
12AE10	12.6	1C30-7625	23	---	X2	S5	250	Pentode No. 2
12AL11	12.6	1C80-BA90	19	---	X10	S5	400	Pentode No. 1
12AL11	12.6	1C30-6724	22	---	X2	S5	300	Pentode No. 2
12AX3	12.6	1C00-4070	0	40	SH	S3	650	Triode No. 1
12AX3	12.6	4500-2090	0	52	SH	S3	650	Triode No. 2
12BE3	12.6	1C00-A070	0	58	SH	S3	650	Triode No. 2
12BF11	12.6	1C80-BA90	30	---	X10	S5	375	Pentode No. 1
12BF11	12.6	1C30-7625	17	---	X2	S5	200	Pentode No. 2
12BS3	12.6	4500-2090	0	60	SH	S3	400	Triode No. 1
12BT3	12.6	1C00-4070	0	60	SH	S3	650	Triode No. 2
12G11	12.6	1C80-BA90	39	---	X4	S5	650	Pentode No. 1
12G11	12.6	1C30-6724	20	---	X2	S5	150	Pentode No. 2
12GE5	12.6	1C80-72A0	50	---	X10	S5	300	Triode No. 1
12GJ5	12.6	4560-0730	31	---	X10	---	450	CAP = P on Adapter
12GT5	12.6	4560-9730	31	---	X10	---	450	Hold down S1 and Press S5
12GV5	12.6	1C90-0BA0	47	---	X10	S5	350	Hold down S1 and Press S5
12HE7	12.6	1C90-5B80	58	---	X10	S5	200	Pentode Sect.
12HE7	12.6	1C00-2040	0	85	SH	S1	500	Diode Sect.
12TB6	12.6	4520-0138	31	---	X10	---	450	Hold down S1 and Press S5
12JN6	12.6	1CB0-7324	48	---	X10	S5	350	Pentode No. 1
12JN6	12.6	4520-9735	47	---	X10	S5	275	Pentode No. 2
12T10	12.6	1C80-BA90	20	---	X10	S5	375	Triode No. 1
12T10	12.6	1C30-7625	15	---	X2	S5	200	Triode No. 2
13CW4	12.6	AC40-2080	10	---	X10	S4	575	Triode No. 1
13FM7	12.6	1CA0-B090	20	---	X2	S5	300	Triode No. 2
13FM7	12.6	1C80-5070	61	---	X4	S5	725	Triode No. 1
13CF7	12.6	4590-8010	20	---	X2	S5	250	Triode No. 2
13CF7	12.6	4520-6030	64	---	X10	S5	450	Triode No. 2

MODEL 752 TUBE TESTER

NOTE: When using CA-4 Adapter, set Tester Selectors to 1234-5678

TUBE TYPE	FTL	ADAPTER SELECTORS	BIAS	SHUNT	MULT.	PRESS	MIN. MUT. COND.	NOTATIONS
13J10	12.6	1C70-4685	0	---	X1	S5	500	Pentode No. 1
13J10	12.6	1CB0-9230	20	---	X10	S5	375	Pentode No. 2
13V10	12.6	1C80-BA90	26	---	X10	S5	300	Pentode No. 1
13V10	12.6	1C30-7625	26	---	X4	S5	150	Pentode No. 2
13Z10	12.6	1C70-4685	20	---	X1	S5	500	Pentode No. 1
13Z10	12.6	1CB0-9230	20	---	X10	S5	375	Pentode No. 2
14BL11	12.6	1CB0-2A80	13	---	X10	S5	625	Pentode Sect.
14BL11	12.6	1C50-7060	11	---	X10	S5	375	Triode No. 1
14BL11	12.6	1C30-9040	18	---	X10	S5	450	Triode No. 2
14BR11	12.6	1C80-B340	10	---	X10	S5	500	Pentode Sect.
14BR11	12.6	1C90-6050	13	---	X10	S5	400	Triode No. 1
14BR11	12.6	1CA0-9070	14	---	X10	S5	300	Triode No. 2
15AF11	17.0	1CB0-2A90	12	---	X10	S5	450	Pent. Sect.) Set "Line Ad-
15AF11	17.0	1C80-8050	13	---	X4	S5	825	Triode No. 1) just" at 725 on
15AF11	17.0	1C30-4070	13	---	X4	S5	625	Triode No. 2) 1500 scale.
15BD11	12.6	1CB0-2A80	19	---	X10	S5	450	Pent. Sect.) Set "Line Ad-
15BD11	12.6	1C60-8050	15	---	X4	S5	800	Triode No. 1) just" at 110 on
15BD11	12.6	1C30-4070	18	---	X4	S5	700	Triode No. 2) 200 scale.
15FM7	12.6	1CA0-B090	23	---	X2	S5	300	Triode No. 1) Set "Line Ad-
15FM7	12.6	1C80-5070	72	---	X4	S5	725	Triode No. 2) just" at 110 on
15FY7	17.0	1CA0-B090	20	---	X2	S5	225	Triode No. 1) Set "Line Ad-
15FY7	17.0	1C30-5070	55	---	X10	S5	475	Triode No. 2) just" at 725 on
15KY8	17.0	4520-6730	39	---	X10	S5	300	Triode No. 1) 1500 scale.
15KY8	17.0	4590-8010	16	---	X2	S5	350	Pent. Sect.) Set "Line Ad-
16CY5	17.0	1C90-0BA0	59	---	X4	S5	800	Triode No. 1) just" at 700 on
16KA6	17.0	1C50-03A4	62	---	X10	S5	300	Triode No. 2) 1500 scale.
17AB10	17.0	1C70-4685	0	---	X1	S5	500	Limiter Grid
17AB10	17.0	1C50-4687	0	---	X1	S5	525	Quadrature Grid
17AB10	17.0	1CB0-9230	35	---	X4	S5	700	Pentode No. 2
17AX3	17.0	1C00-4070	0	40	SH	S3	850	Triode No. 1
17AY3	17.0	4500-2090	0	52	SH	S3	650	Triode No. 2
17BE3	17.0	1C00-A070	0	58	SH	S3	650	Triode No. 2
17BF11	17.0	1CB0-BA90	30	---	X10	S5	375	Pentode No. 1
17BF11	17.0	1C30-7625	17	---	X2	S5	200	Pentode No. 2
17BH3	17.0	4500-2090	0	52	SH	S3	650	Triode No. 1
17BS3	17.0	4500-2090	0	60	SH	S3	400	Triode No. 2
17BZ3	17.0	1C00-A070	0	77	SH	S3	400	Triode No. 1
17C9	17.0	4570-9860	16	---	X4	S5	700	Triode No. 2
17C9	17.0	4510-32A0	16	---	X4	S5	700	Triode No. 1
17GE5	17.0	1CB0-72A0	26	---	X10	---	550	Hold down S1 and Press S5
17GJ5	17.0	4560-0730	31	---	X10	---	450	CAP = P on Adapter
17GT5	17.0	4560-9730	31	---	X10	---	450	Hold down S1 and Press S5
17GV5	17.0	1C90-0BA0	27	---	X10	---	525	Hold down S1 and Press S5
17JB6	17.0	4520-0138	31	---	X10	---	450	CAP = P on Adapter
17JC6A	17.0	4520-9735	36	---	X10	---	550	Hold down S1 and Press S5
17JM6	17.0	1C50-032A	48	---	X10	S5	350	CAP = P on Adapter
17JN6	17.0	1CB0-7324	48	---	X10	S5	350	Triode No. 1
17JT6	17.0	4520-9736	47	---	X10	S5	275	Triode No. 2
17JZ8	17.0	1C70-4890	35	---	X4	S5	725	Triode No. 1
17JZ8	17.0	1CA0-20B0	32	---	X2	S5	400	Triode No. 2

MODEL 752 TUBE TESTER

NOTE: When using CA-4 Adapter, set Tester Selectors to 1234-5678

TUBE TYPE	FIL	ADAPTER SELECTORS	BIAS	SHUNT	MULT.	PRESS	MIN. MUT. COND.	NOTATIONS
17LD8	17.0	4520-6730	39	---	X4	S5	800	Pentode Sect.
17LD8	17.0	4590-8010	30	---	X2	S5	500	Triode Sect.
17X10	17.0	1C70-4685	0	---	X1	S5	500	Limiter Grid
17X10	17.0	1C50-4687	0	---	X1	S5	525	Quadrature Grid
17X10	17.0	1CB0-9230	35	---	X4	S5	700	Pentode No. 2
19Q8	20.0	4510-32A6	10	---	X4	S5	650	Pentode Sect.
19Q8	20.0	4580-9076	15	---	X10	S5	400	Triode Sect.
21GY5	20.0	1C50-07A0	32	---	X10	---	675	CAP = P on Adapter Hold down SI and Press S5
21HB5	20.0	1CB0-72A0	59	---	X4	S5	625	
21HD5	20.0	1CB0-79A0	52	---	X10	S5	400	
21HJ5	20.0	1CB0-792A	53	---	X10	S5	350	
21JV6	20.0	1CB0-732A	60	---	X10	S5	325	
21JZ6	20.0	1C50-032A	63	---	X10	S5	300	
21KA6	20.0	1C50-03A4	62	---	X10	S5	300	
21LR8	20.0	4520-6730	40	---	X10	S5	350	
21LR8	20.0	4590-2010	21	---	X4	S5	350	
21LU8	20.0	1C60-4890	40	---	X10	S5	350	
21LU8	20.0	1CA0-20B0	21	---	X4	S5	350	
22BH3	20.0	4500-2090	0	52	SH	S3	650	Set "Line Adjust" to 850 on 1500 scale.
22BW3	25.0	1C00-A070	0	49	SH	S3	650	
22FF6	20.0	4520-0738	36	---	X10	---	350	CAP = P on Adapter Hold down SI and Press S5
22TG6	20.0	4520-9736	36	---	X10	---	550	Hold down SI and Press S5
22TU6	20.0	4520-0738	62	---	X4	S5	700	
23Z9	25.0	1C80-5970	40	---	X10	S5	300	CAP = P on Adapter
23Z9	25.0	1CA0-B070	20	---	X4	S5	550	Pentode Sect.
23Z9	25.0	1C30-2070	30	---	X4	S5	350	Triode No. 1
24GA7	25.0	1C40-7350	49	---	X4	S5	700	Triode No. 2
24GA7	25.0	1C00-B080	0	43	SH	S3	400	Pentode Sect.
28HD5	25.0	1CB0-79A0	52	---	X10	S5	400	Diode Sect.
30AG11	35.0	1C58-6749	11	---	X10	S5	525	X Dual Triode. Set "Line Adjust" to 650 on 1500 scale.
30AG11	35.0	1C00-3A2B	0	78	SH	S1	400	X Dual Diode
31JS6A	35.0	1C50-032A	68	---	X4	S5	600	CAP = P on Adapter
32GA7	35.0	1C40-7350	49	---	X4	S5	700	Pentode Sect.
32GA7	35.0	1C00-B080	0	43	SH	S3	400	Diode Sect.
33GT7	35.0	1CB0-5A80	34	---	X10	---	450	Pentode Sect.
33GT7	35.0	1C00-20A0	0	76	SH	S3	400	Hold down SI and Press S5
33GY7	35.0	1CA0-5B80	34	---	X10	---	450	Triode Sect.
33GY7	35.0	1C00-20A0	0	76	SH	S3	400	Pentode Sect.
33GY7	35.0	1C00-20A0	0	76	SH	S3	400	Hold down SI and Press S5
33JV6	35.0	1CB0-732A	60	---	X10	S5	325	Diode Sect.
34CD3	35.0	1C00-A070	0	63	SH	S3	650	Pent. Sect. Set "Line Adjust" to 600 on 1500 scale.
34CE3	35.0	1C00-4070	0	65	SH	S3	650	Diode Sect.
36HE7	50.0	1C90-5B80	51	---	X10	S5	200	Pentode Sect.
38HE7	50.0	1C00-20A0	0	82	SH	S1	500	Diode Sect.
38HK7	35.0	1C90-5B80	60	---	X4	S5	625	Pentode Sect.
38HK7	35.0	1C00-20A0	0	88	SH	S1	400	Diode Sect.
42KN6	50.0	1C50-032A	64	---	X10	S5	300	CAP = P on Adapter. Set "Line Adjust" to 86 on 200 scale.
7586	6.3	AC40-2080	15	---	X10	S4	600	CAP = P on Adapter
7587	6.3	AC40-0280	10	---	X10	---	450	Hold down SI and Press S5

MODEL 752 TUBE TESTER

NOTE: When using CA-4 Adapter, set Tester Selectors to 1234-5678

TUBE TYPE	FIL	ADAPTER SELECTORS	BIAS	SHUNT	MULT.	PRESS	MIN. MUT. COND.	NOTATIONS
7868	6.3	4580-9730	11	---	X10	S5	525	
7895	6.3	AC40-2080	16	---	X10	S5	525	
7984	12.6	1CA0-3E90	46	---	X10	S5	350	
8056	6.3	AC40-2080	10	73	SH	S1	650	Make no Gas Test
8058	6.3	AC00-0020	13	---	X10	S5	625	CAP = P. SHELL = G on Adapter
8149	12.6	1CA0-7890	50	---	X4	S5	700	
8150	12.6	1CA0-0860	50	---	X4	S5	700	CAP = P on Adapter
8158	12.6	1CA0-3760	31	---	X4	S5	625	
8203	6.3	AC40-2080	26	---	X10	S5	300	
8393	12.6	AC40-2080	24	---	X10	S5	500	

